

ANALYTICAL REPORT

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Laboratory Job ID: 570-72281-1
Client Project/Site: NB Oil Spill Response

For:

City of Newport Beach
3300 Newport Blvd.
PO BOX 1768
Newport Beach, California 92658-8915

Attn: John Kappeler



Authorized for release by:
10/11/2021 4:48:46 PM

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Client Sample Results	5
Surrogate Summary	22
QC Sample Results	24
QC Association Summary	29
Lab Chronicle	33
Certification Summary	38
Method Summary	39
Sample Summary	40
Chain of Custody	41
Receipt Checklists	42

Definitions/Glossary

Client: City of Newport Beach
Project/Site: NB Oil Spill Response

Job ID: 570-72281-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: City of Newport Beach
Project/Site: NB Oil Spill Response

Job ID: 570-72281-1

Job ID: 570-72281-1

Laboratory: Eurofins Calscience LLC

Narrative

Job Narrative 570-72281-1

Comments

No additional comments.

Receipt

The samples were received on 10/8/2021 3:22 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 3.8° C, 3.9° C and 4.1° C.

GC/MS Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals

Method 200.8: The closing continuing calibration verification (CCV) associated with samples (LCS 570-184971/2-A), (LCSD 570-184971/3-A) and (MB 570-184971/1-A) was outside 10 %D criteria for the quantitation of Beryllium, triggering recalibration. The %D is below 15 %D; therefore, samples are reportable and were not re-analyzed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep

Method 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 570-184919. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Client Sample Results

Client: City of Newport Beach
Project/Site: NB Oil Spill Response

Job ID: 570-72281-1

Method: 8270C SIM - PAHs (GC/MS SIM)

Client Sample ID: LC-1
Date Collected: 10/08/21 10:30
Date Received: 10/08/21 15:22

Lab Sample ID: 570-72281-1
Matrix: Seawater

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	ND		0.19	0.068	ug/L		10/08/21 18:07	10/09/21 11:47	1
2-Methylnaphthalene	ND		0.19	0.072	ug/L		10/08/21 18:07	10/09/21 11:47	1
Acenaphthene	ND		0.19	0.091	ug/L		10/08/21 18:07	10/09/21 11:47	1
Acenaphthylene	ND		0.19	0.064	ug/L		10/08/21 18:07	10/09/21 11:47	1
Anthracene	ND		0.19	0.055	ug/L		10/08/21 18:07	10/09/21 11:47	1
Benzo[g,h,i]perylene	ND		0.19	0.094	ug/L		10/08/21 18:07	10/09/21 11:47	1
Benzo[k]fluoranthene	ND		0.19	0.087	ug/L		10/08/21 18:07	10/09/21 11:47	1
Benzo[a]anthracene	ND		0.19	0.080	ug/L		10/08/21 18:07	10/09/21 11:47	1
Benzo[a]pyrene	ND		0.19	0.058	ug/L		10/08/21 18:07	10/09/21 11:47	1
Benzo[b]fluoranthene	ND		0.19	0.11	ug/L		10/08/21 18:07	10/09/21 11:47	1
Chrysene	ND		0.19	0.055	ug/L		10/08/21 18:07	10/09/21 11:47	1
Dibenz(a,h)anthracene	ND		0.19	0.11	ug/L		10/08/21 18:07	10/09/21 11:47	1
Fluoranthene	ND		0.19	0.063	ug/L		10/08/21 18:07	10/09/21 11:47	1
Fluorene	ND		0.19	0.070	ug/L		10/08/21 18:07	10/09/21 11:47	1
Indeno[1,2,3-cd]pyrene	ND		0.19	0.099	ug/L		10/08/21 18:07	10/09/21 11:47	1
Naphthalene	ND		0.19	0.077	ug/L		10/08/21 18:07	10/09/21 11:47	1
Phenanthrene	ND		0.19	0.068	ug/L		10/08/21 18:07	10/09/21 11:47	1
Pyrene	ND		0.19	0.062	ug/L		10/08/21 18:07	10/09/21 11:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	93		33 - 144				10/08/21 18:07	10/09/21 11:47	1
Nitrobenzene-d5 (Surr)	85		28 - 139				10/08/21 18:07	10/09/21 11:47	1
p-Terphenyl-d14 (Surr)	89		23 - 160				10/08/21 18:07	10/09/21 11:47	1

Client Sample ID: BC-1
Date Collected: 10/08/21 11:00
Date Received: 10/08/21 15:22

Lab Sample ID: 570-72281-2
Matrix: Seawater

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	ND		0.19	0.069	ug/L		10/08/21 18:07	10/09/21 12:09	1
2-Methylnaphthalene	ND		0.19	0.073	ug/L		10/08/21 18:07	10/09/21 12:09	1
Acenaphthene	ND		0.19	0.092	ug/L		10/08/21 18:07	10/09/21 12:09	1
Acenaphthylene	ND		0.19	0.065	ug/L		10/08/21 18:07	10/09/21 12:09	1
Anthracene	ND		0.19	0.056	ug/L		10/08/21 18:07	10/09/21 12:09	1
Benzo[g,h,i]perylene	ND		0.19	0.095	ug/L		10/08/21 18:07	10/09/21 12:09	1
Benzo[k]fluoranthene	ND		0.19	0.088	ug/L		10/08/21 18:07	10/09/21 12:09	1
Benzo[a]anthracene	ND		0.19	0.081	ug/L		10/08/21 18:07	10/09/21 12:09	1
Benzo[a]pyrene	ND		0.19	0.059	ug/L		10/08/21 18:07	10/09/21 12:09	1
Benzo[b]fluoranthene	ND		0.19	0.11	ug/L		10/08/21 18:07	10/09/21 12:09	1
Chrysene	ND		0.19	0.056	ug/L		10/08/21 18:07	10/09/21 12:09	1
Dibenz(a,h)anthracene	ND		0.19	0.11	ug/L		10/08/21 18:07	10/09/21 12:09	1
Fluoranthene	ND		0.19	0.064	ug/L		10/08/21 18:07	10/09/21 12:09	1
Fluorene	ND		0.19	0.071	ug/L		10/08/21 18:07	10/09/21 12:09	1
Indeno[1,2,3-cd]pyrene	ND		0.19	0.10	ug/L		10/08/21 18:07	10/09/21 12:09	1
Naphthalene	ND		0.19	0.078	ug/L		10/08/21 18:07	10/09/21 12:09	1
Phenanthrene	ND		0.19	0.069	ug/L		10/08/21 18:07	10/09/21 12:09	1
Pyrene	ND		0.19	0.062	ug/L		10/08/21 18:07	10/09/21 12:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	79		33 - 144				10/08/21 18:07	10/09/21 12:09	1
Nitrobenzene-d5 (Surr)	72		28 - 139				10/08/21 18:07	10/09/21 12:09	1

Eurofins Calscience LLC

Client Sample Results

Client: City of Newport Beach
Project/Site: NB Oil Spill Response

Job ID: 570-72281-1

Method: 8270C SIM - PAHs (GC/MS SIM) (Continued)

Client Sample ID: BC-1
Date Collected: 10/08/21 11:00
Date Received: 10/08/21 15:22

Lab Sample ID: 570-72281-2
Matrix: Seawater

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl-d14 (Surr)	79		23 - 160	10/08/21 18:07	10/09/21 12:09	1

Client Sample ID: CC-1
Date Collected: 10/08/21 11:15
Date Received: 10/08/21 15:22

Lab Sample ID: 570-72281-3
Matrix: Seawater

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	ND		0.19	0.068	ug/L		10/08/21 18:07	10/09/21 12:30	1
2-Methylnaphthalene	ND		0.19	0.072	ug/L		10/08/21 18:07	10/09/21 12:30	1
Acenaphthene	ND		0.19	0.091	ug/L		10/08/21 18:07	10/09/21 12:30	1
Acenaphthylene	ND		0.19	0.064	ug/L		10/08/21 18:07	10/09/21 12:30	1
Anthracene	ND		0.19	0.055	ug/L		10/08/21 18:07	10/09/21 12:30	1
Benzo[g,h,i]perylene	ND		0.19	0.094	ug/L		10/08/21 18:07	10/09/21 12:30	1
Benzo[k]fluoranthene	ND		0.19	0.087	ug/L		10/08/21 18:07	10/09/21 12:30	1
Benzo[a]anthracene	ND		0.19	0.080	ug/L		10/08/21 18:07	10/09/21 12:30	1
Benzo[a]pyrene	ND		0.19	0.058	ug/L		10/08/21 18:07	10/09/21 12:30	1
Benzo[b]fluoranthene	ND		0.19	0.11	ug/L		10/08/21 18:07	10/09/21 12:30	1
Chrysene	ND		0.19	0.055	ug/L		10/08/21 18:07	10/09/21 12:30	1
Dibenz(a,h)anthracene	ND		0.19	0.11	ug/L		10/08/21 18:07	10/09/21 12:30	1
Fluoranthene	ND		0.19	0.063	ug/L		10/08/21 18:07	10/09/21 12:30	1
Fluorene	ND		0.19	0.070	ug/L		10/08/21 18:07	10/09/21 12:30	1
Indeno[1,2,3-cd]pyrene	ND		0.19	0.099	ug/L		10/08/21 18:07	10/09/21 12:30	1
Naphthalene	ND		0.19	0.077	ug/L		10/08/21 18:07	10/09/21 12:30	1
Phenanthrene	ND		0.19	0.068	ug/L		10/08/21 18:07	10/09/21 12:30	1
Pyrene	ND		0.19	0.062	ug/L		10/08/21 18:07	10/09/21 12:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	80		33 - 144	10/08/21 18:07	10/09/21 12:30	1
Nitrobenzene-d5 (Surr)	71		28 - 139	10/08/21 18:07	10/09/21 12:30	1
p-Terphenyl-d14 (Surr)	79		23 - 160	10/08/21 18:07	10/09/21 12:30	1

Client Sample ID: WD-1
Date Collected: 10/08/21 11:50
Date Received: 10/08/21 15:22

Lab Sample ID: 570-72281-4
Matrix: Seawater

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	ND		0.19	0.069	ug/L		10/08/21 18:07	10/09/21 12:52	1
2-Methylnaphthalene	ND		0.19	0.073	ug/L		10/08/21 18:07	10/09/21 12:52	1
Acenaphthene	ND		0.19	0.092	ug/L		10/08/21 18:07	10/09/21 12:52	1
Acenaphthylene	ND		0.19	0.065	ug/L		10/08/21 18:07	10/09/21 12:52	1
Anthracene	ND		0.19	0.056	ug/L		10/08/21 18:07	10/09/21 12:52	1
Benzo[g,h,i]perylene	ND		0.19	0.095	ug/L		10/08/21 18:07	10/09/21 12:52	1
Benzo[k]fluoranthene	ND		0.19	0.088	ug/L		10/08/21 18:07	10/09/21 12:52	1
Benzo[a]anthracene	ND		0.19	0.081	ug/L		10/08/21 18:07	10/09/21 12:52	1
Benzo[a]pyrene	ND		0.19	0.059	ug/L		10/08/21 18:07	10/09/21 12:52	1
Benzo[b]fluoranthene	ND		0.19	0.11	ug/L		10/08/21 18:07	10/09/21 12:52	1
Chrysene	ND		0.19	0.056	ug/L		10/08/21 18:07	10/09/21 12:52	1
Dibenz(a,h)anthracene	ND		0.19	0.11	ug/L		10/08/21 18:07	10/09/21 12:52	1
Fluoranthene	ND		0.19	0.064	ug/L		10/08/21 18:07	10/09/21 12:52	1
Fluorene	ND		0.19	0.071	ug/L		10/08/21 18:07	10/09/21 12:52	1
Indeno[1,2,3-cd]pyrene	ND		0.19	0.10	ug/L		10/08/21 18:07	10/09/21 12:52	1
Naphthalene	ND		0.19	0.078	ug/L		10/08/21 18:07	10/09/21 12:52	1

Eurofins Calscience LLC

Client Sample Results

Client: City of Newport Beach
Project/Site: NB Oil Spill Response

Job ID: 570-72281-1

Method: 8270C SIM - PAHs (GC/MS SIM) (Continued)

Client Sample ID: WD-1

Date Collected: 10/08/21 11:50

Date Received: 10/08/21 15:22

Lab Sample ID: 570-72281-4

Matrix: Seawater

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenanthrene	ND		0.19	0.069	ug/L		10/08/21 18:07	10/09/21 12:52	1
Pyrene	ND		0.19	0.062	ug/L		10/08/21 18:07	10/09/21 12:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	88		33 - 144				10/08/21 18:07	10/09/21 12:52	1
Nitrobenzene-d5 (Surr)	75		28 - 139				10/08/21 18:07	10/09/21 12:52	1
p-Terphenyl-d14 (Surr)	85		23 - 160				10/08/21 18:07	10/09/21 12:52	1

Client Sample ID: BP-1

Date Collected: 10/08/21 12:15

Date Received: 10/08/21 15:22

Lab Sample ID: 570-72281-5

Matrix: Seawater

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	ND		0.19	0.068	ug/L		10/08/21 18:07	10/09/21 13:13	1
2-Methylnaphthalene	ND		0.19	0.072	ug/L		10/08/21 18:07	10/09/21 13:13	1
Acenaphthene	ND		0.19	0.091	ug/L		10/08/21 18:07	10/09/21 13:13	1
Acenaphthylene	ND		0.19	0.064	ug/L		10/08/21 18:07	10/09/21 13:13	1
Anthracene	ND		0.19	0.055	ug/L		10/08/21 18:07	10/09/21 13:13	1
Benzo[g,h,i]perylene	ND		0.19	0.094	ug/L		10/08/21 18:07	10/09/21 13:13	1
Benzo[k]fluoranthene	ND		0.19	0.087	ug/L		10/08/21 18:07	10/09/21 13:13	1
Benzo[a]anthracene	ND		0.19	0.080	ug/L		10/08/21 18:07	10/09/21 13:13	1
Benzo[a]pyrene	ND		0.19	0.058	ug/L		10/08/21 18:07	10/09/21 13:13	1
Benzo[b]fluoranthene	ND		0.19	0.11	ug/L		10/08/21 18:07	10/09/21 13:13	1
Chrysene	ND		0.19	0.055	ug/L		10/08/21 18:07	10/09/21 13:13	1
Dibenz(a,h)anthracene	ND		0.19	0.11	ug/L		10/08/21 18:07	10/09/21 13:13	1
Fluoranthene	ND		0.19	0.063	ug/L		10/08/21 18:07	10/09/21 13:13	1
Fluorene	ND		0.19	0.070	ug/L		10/08/21 18:07	10/09/21 13:13	1
Indeno[1,2,3-cd]pyrene	ND		0.19	0.099	ug/L		10/08/21 18:07	10/09/21 13:13	1
Naphthalene	ND		0.19	0.077	ug/L		10/08/21 18:07	10/09/21 13:13	1
Phenanthrene	ND		0.19	0.068	ug/L		10/08/21 18:07	10/09/21 13:13	1
Pyrene	ND		0.19	0.062	ug/L		10/08/21 18:07	10/09/21 13:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	79		33 - 144				10/08/21 18:07	10/09/21 13:13	1
Nitrobenzene-d5 (Surr)	69		28 - 139				10/08/21 18:07	10/09/21 13:13	1
p-Terphenyl-d14 (Surr)	79		23 - 160				10/08/21 18:07	10/09/21 13:13	1

Client Sample ID: 15-1

Date Collected: 10/08/21 12:30

Date Received: 10/08/21 15:22

Lab Sample ID: 570-72281-6

Matrix: Seawater

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	ND		0.19	0.068	ug/L		10/08/21 18:07	10/09/21 13:35	1
2-Methylnaphthalene	ND		0.19	0.072	ug/L		10/08/21 18:07	10/09/21 13:35	1
Acenaphthene	ND		0.19	0.090	ug/L		10/08/21 18:07	10/09/21 13:35	1
Acenaphthylene	ND		0.19	0.064	ug/L		10/08/21 18:07	10/09/21 13:35	1
Anthracene	ND		0.19	0.055	ug/L		10/08/21 18:07	10/09/21 13:35	1
Benzo[g,h,i]perylene	ND		0.19	0.094	ug/L		10/08/21 18:07	10/09/21 13:35	1
Benzo[k]fluoranthene	ND		0.19	0.087	ug/L		10/08/21 18:07	10/09/21 13:35	1
Benzo[a]anthracene	ND		0.19	0.080	ug/L		10/08/21 18:07	10/09/21 13:35	1
Benzo[a]pyrene	ND		0.19	0.058	ug/L		10/08/21 18:07	10/09/21 13:35	1
Benzo[b]fluoranthene	ND		0.19	0.11	ug/L		10/08/21 18:07	10/09/21 13:35	1

Eurofins Calscience LLC

Client Sample Results

Client: City of Newport Beach
Project/Site: NB Oil Spill Response

Job ID: 570-72281-1

Method: 8270C SIM - PAHs (GC/MS SIM) (Continued)

Client Sample ID: 15-1

Date Collected: 10/08/21 12:30

Date Received: 10/08/21 15:22

Lab Sample ID: 570-72281-6

Matrix: Seawater

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	ND		0.19	0.055	ug/L		10/08/21 18:07	10/09/21 13:35	1
Dibenz(a,h)anthracene	ND		0.19	0.11	ug/L		10/08/21 18:07	10/09/21 13:35	1
Fluoranthene	ND		0.19	0.063	ug/L		10/08/21 18:07	10/09/21 13:35	1
Fluorene	ND		0.19	0.070	ug/L		10/08/21 18:07	10/09/21 13:35	1
Indeno[1,2,3-cd]pyrene	ND		0.19	0.099	ug/L		10/08/21 18:07	10/09/21 13:35	1
Naphthalene	ND		0.19	0.077	ug/L		10/08/21 18:07	10/09/21 13:35	1
Phenanthrene	ND		0.19	0.068	ug/L		10/08/21 18:07	10/09/21 13:35	1
Pyrene	ND		0.19	0.061	ug/L		10/08/21 18:07	10/09/21 13:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	74		33 - 144				10/08/21 18:07	10/09/21 13:35	1
Nitrobenzene-d5 (Surr)	69		28 - 139				10/08/21 18:07	10/09/21 13:35	1
p-Terphenyl-d14 (Surr)	76		23 - 160				10/08/21 18:07	10/09/21 13:35	1

Client Sample ID: 38-1

Date Collected: 10/08/21 13:00

Date Received: 10/08/21 15:22

Lab Sample ID: 570-72281-7

Matrix: Seawater

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	ND		0.19	0.068	ug/L		10/08/21 18:07	10/09/21 13:56	1
2-Methylnaphthalene	ND		0.19	0.072	ug/L		10/08/21 18:07	10/09/21 13:56	1
Acenaphthene	ND		0.19	0.091	ug/L		10/08/21 18:07	10/09/21 13:56	1
Acenaphthylene	ND		0.19	0.064	ug/L		10/08/21 18:07	10/09/21 13:56	1
Anthracene	ND		0.19	0.055	ug/L		10/08/21 18:07	10/09/21 13:56	1
Benzo[g,h,i]perylene	ND		0.19	0.094	ug/L		10/08/21 18:07	10/09/21 13:56	1
Benzo[k]fluoranthene	ND		0.19	0.087	ug/L		10/08/21 18:07	10/09/21 13:56	1
Benzo[a]anthracene	ND		0.19	0.080	ug/L		10/08/21 18:07	10/09/21 13:56	1
Benzo[a]pyrene	ND		0.19	0.058	ug/L		10/08/21 18:07	10/09/21 13:56	1
Benzo[b]fluoranthene	ND		0.19	0.11	ug/L		10/08/21 18:07	10/09/21 13:56	1
Chrysene	ND		0.19	0.055	ug/L		10/08/21 18:07	10/09/21 13:56	1
Dibenz(a,h)anthracene	ND		0.19	0.11	ug/L		10/08/21 18:07	10/09/21 13:56	1
Fluoranthene	ND		0.19	0.063	ug/L		10/08/21 18:07	10/09/21 13:56	1
Fluorene	ND		0.19	0.070	ug/L		10/08/21 18:07	10/09/21 13:56	1
Indeno[1,2,3-cd]pyrene	ND		0.19	0.099	ug/L		10/08/21 18:07	10/09/21 13:56	1
Naphthalene	ND		0.19	0.077	ug/L		10/08/21 18:07	10/09/21 13:56	1
Phenanthrene	ND		0.19	0.068	ug/L		10/08/21 18:07	10/09/21 13:56	1
Pyrene	ND		0.19	0.062	ug/L		10/08/21 18:07	10/09/21 13:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	79		33 - 144				10/08/21 18:07	10/09/21 13:56	1
Nitrobenzene-d5 (Surr)	70		28 - 139				10/08/21 18:07	10/09/21 13:56	1
p-Terphenyl-d14 (Surr)	83		23 - 160				10/08/21 18:07	10/09/21 13:56	1

Client Sample ID: 52-1

Date Collected: 10/08/21 13:15

Date Received: 10/08/21 15:22

Lab Sample ID: 570-72281-8

Matrix: Seawater

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	ND		0.19	0.068	ug/L		10/08/21 18:07	10/09/21 14:18	1
2-Methylnaphthalene	ND		0.19	0.072	ug/L		10/08/21 18:07	10/09/21 14:18	1
Acenaphthene	ND		0.19	0.091	ug/L		10/08/21 18:07	10/09/21 14:18	1
Acenaphthylene	ND		0.19	0.064	ug/L		10/08/21 18:07	10/09/21 14:18	1

Eurofins Calscience LLC

Client Sample Results

Client: City of Newport Beach
Project/Site: NB Oil Spill Response

Job ID: 570-72281-1

Method: 8270C SIM - PAHs (GC/MS SIM) (Continued)

Client Sample ID: 52-1
Date Collected: 10/08/21 13:15
Date Received: 10/08/21 15:22

Lab Sample ID: 570-72281-8
Matrix: Seawater

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		0.19	0.055	ug/L		10/08/21 18:07	10/09/21 14:18	1
Benzo[g,h,i]perylene	ND		0.19	0.094	ug/L		10/08/21 18:07	10/09/21 14:18	1
Benzo[k]fluoranthene	ND		0.19	0.087	ug/L		10/08/21 18:07	10/09/21 14:18	1
Benzo[a]anthracene	ND		0.19	0.080	ug/L		10/08/21 18:07	10/09/21 14:18	1
Benzo[a]pyrene	ND		0.19	0.058	ug/L		10/08/21 18:07	10/09/21 14:18	1
Benzo[b]fluoranthene	ND		0.19	0.11	ug/L		10/08/21 18:07	10/09/21 14:18	1
Chrysene	ND		0.19	0.055	ug/L		10/08/21 18:07	10/09/21 14:18	1
Dibenz(a,h)anthracene	ND		0.19	0.11	ug/L		10/08/21 18:07	10/09/21 14:18	1
Fluoranthene	ND		0.19	0.063	ug/L		10/08/21 18:07	10/09/21 14:18	1
Fluorene	ND		0.19	0.070	ug/L		10/08/21 18:07	10/09/21 14:18	1
Indeno[1,2,3-cd]pyrene	ND		0.19	0.099	ug/L		10/08/21 18:07	10/09/21 14:18	1
Naphthalene	ND		0.19	0.077	ug/L		10/08/21 18:07	10/09/21 14:18	1
Phenanthrene	ND		0.19	0.068	ug/L		10/08/21 18:07	10/09/21 14:18	1
Pyrene	ND		0.19	0.062	ug/L		10/08/21 18:07	10/09/21 14:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	64		33 - 144				10/08/21 18:07	10/09/21 14:18	1
Nitrobenzene-d5 (Surr)	58		28 - 139				10/08/21 18:07	10/09/21 14:18	1
p-Terphenyl-d14 (Surr)	70		23 - 160				10/08/21 18:07	10/09/21 14:18	1

Client Sample ID: OR-1
Date Collected: 10/08/21 13:25
Date Received: 10/08/21 15:22

Lab Sample ID: 570-72281-9
Matrix: Seawater

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	ND		0.19	0.068	ug/L		10/08/21 18:07	10/09/21 14:39	1
2-Methylnaphthalene	ND		0.19	0.072	ug/L		10/08/21 18:07	10/09/21 14:39	1
Acenaphthene	ND		0.19	0.091	ug/L		10/08/21 18:07	10/09/21 14:39	1
Acenaphthylene	ND		0.19	0.064	ug/L		10/08/21 18:07	10/09/21 14:39	1
Anthracene	ND		0.19	0.055	ug/L		10/08/21 18:07	10/09/21 14:39	1
Benzo[g,h,i]perylene	ND		0.19	0.094	ug/L		10/08/21 18:07	10/09/21 14:39	1
Benzo[k]fluoranthene	ND		0.19	0.087	ug/L		10/08/21 18:07	10/09/21 14:39	1
Benzo[a]anthracene	ND		0.19	0.080	ug/L		10/08/21 18:07	10/09/21 14:39	1
Benzo[a]pyrene	ND		0.19	0.058	ug/L		10/08/21 18:07	10/09/21 14:39	1
Benzo[b]fluoranthene	ND		0.19	0.11	ug/L		10/08/21 18:07	10/09/21 14:39	1
Chrysene	ND		0.19	0.055	ug/L		10/08/21 18:07	10/09/21 14:39	1
Dibenz(a,h)anthracene	ND		0.19	0.11	ug/L		10/08/21 18:07	10/09/21 14:39	1
Fluoranthene	ND		0.19	0.063	ug/L		10/08/21 18:07	10/09/21 14:39	1
Fluorene	ND		0.19	0.070	ug/L		10/08/21 18:07	10/09/21 14:39	1
Indeno[1,2,3-cd]pyrene	ND		0.19	0.099	ug/L		10/08/21 18:07	10/09/21 14:39	1
Naphthalene	ND		0.19	0.077	ug/L		10/08/21 18:07	10/09/21 14:39	1
Phenanthrene	ND		0.19	0.068	ug/L		10/08/21 18:07	10/09/21 14:39	1
Pyrene	ND		0.19	0.062	ug/L		10/08/21 18:07	10/09/21 14:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	66		33 - 144				10/08/21 18:07	10/09/21 14:39	1
Nitrobenzene-d5 (Surr)	60		28 - 139				10/08/21 18:07	10/09/21 14:39	1
p-Terphenyl-d14 (Surr)	69		23 - 160				10/08/21 18:07	10/09/21 14:39	1

Eurofins Calscience LLC

Client Sample Results

Client: City of Newport Beach
Project/Site: NB Oil Spill Response

Job ID: 570-72281-1

Method: 8270C SIM - PAHs (GC/MS SIM)

Client Sample ID: SAR-1
Date Collected: 10/08/21 13:35
Date Received: 10/08/21 15:22

Lab Sample ID: 570-72281-10
Matrix: Seawater

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	ND		0.19	0.068	ug/L		10/08/21 18:07	10/09/21 15:01	1
2-Methylnaphthalene	ND		0.19	0.072	ug/L		10/08/21 18:07	10/09/21 15:01	1
Acenaphthene	ND		0.19	0.091	ug/L		10/08/21 18:07	10/09/21 15:01	1
Acenaphthylene	ND		0.19	0.064	ug/L		10/08/21 18:07	10/09/21 15:01	1
Anthracene	ND		0.19	0.055	ug/L		10/08/21 18:07	10/09/21 15:01	1
Benzo[g,h,i]perylene	ND		0.19	0.094	ug/L		10/08/21 18:07	10/09/21 15:01	1
Benzo[k]fluoranthene	ND		0.19	0.087	ug/L		10/08/21 18:07	10/09/21 15:01	1
Benzo[a]anthracene	ND		0.19	0.080	ug/L		10/08/21 18:07	10/09/21 15:01	1
Benzo[a]pyrene	ND		0.19	0.058	ug/L		10/08/21 18:07	10/09/21 15:01	1
Benzo[b]fluoranthene	ND		0.19	0.11	ug/L		10/08/21 18:07	10/09/21 15:01	1
Chrysene	ND		0.19	0.055	ug/L		10/08/21 18:07	10/09/21 15:01	1
Dibenz(a,h)anthracene	ND		0.19	0.11	ug/L		10/08/21 18:07	10/09/21 15:01	1
Fluoranthene	ND		0.19	0.063	ug/L		10/08/21 18:07	10/09/21 15:01	1
Fluorene	ND		0.19	0.070	ug/L		10/08/21 18:07	10/09/21 15:01	1
Indeno[1,2,3-cd]pyrene	ND		0.19	0.099	ug/L		10/08/21 18:07	10/09/21 15:01	1
Naphthalene	ND		0.19	0.077	ug/L		10/08/21 18:07	10/09/21 15:01	1
Phenanthrene	ND		0.19	0.068	ug/L		10/08/21 18:07	10/09/21 15:01	1
Pyrene	ND		0.19	0.062	ug/L		10/08/21 18:07	10/09/21 15:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	75		33 - 144				10/08/21 18:07	10/09/21 15:01	1
Nitrobenzene-d5 (Surr)	68		28 - 139				10/08/21 18:07	10/09/21 15:01	1
p-Terphenyl-d14 (Surr)	77		23 - 160				10/08/21 18:07	10/09/21 15:01	1

Client Sample Results

Client: City of Newport Beach
Project/Site: NB Oil Spill Response

Job ID: 570-72281-1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Client Sample ID: LC-1
Date Collected: 10/08/21 10:30
Date Received: 10/08/21 15:22

Lab Sample ID: 570-72281-1
Matrix: Seawater

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		48	34	ug/L		10/08/21 16:44	10/08/21 23:12	1
Total Petroleum Hydrocarbons (C8-C40)	ND		48	34	ug/L		10/08/21 16:44	10/08/21 23:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	107		53 - 151				10/08/21 16:44	10/08/21 23:12	1

Client Sample ID: BC-1
Date Collected: 10/08/21 11:00
Date Received: 10/08/21 15:22

Lab Sample ID: 570-72281-2
Matrix: Seawater

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		49	36	ug/L		10/08/21 16:44	10/08/21 23:41	1
Total Petroleum Hydrocarbons (C8-C40)	ND		49	36	ug/L		10/08/21 16:44	10/08/21 23:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	101		53 - 151				10/08/21 16:44	10/08/21 23:41	1

Client Sample ID: CC-1
Date Collected: 10/08/21 11:15
Date Received: 10/08/21 15:22

Lab Sample ID: 570-72281-3
Matrix: Seawater

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		46	33	ug/L		10/08/21 16:44	10/09/21 00:11	1
Total Petroleum Hydrocarbons (C8-C40)	ND		46	33	ug/L		10/08/21 16:44	10/09/21 00:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	99		53 - 151				10/08/21 16:44	10/09/21 00:11	1

Client Sample ID: WD-1
Date Collected: 10/08/21 11:50
Date Received: 10/08/21 15:22

Lab Sample ID: 570-72281-4
Matrix: Seawater

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		47	34	ug/L		10/08/21 16:44	10/09/21 00:40	1
Total Petroleum Hydrocarbons (C8-C40)	37	J	47	34	ug/L		10/08/21 16:44	10/09/21 00:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	102		53 - 151				10/08/21 16:44	10/09/21 00:40	1

Client Sample ID: BP-1
Date Collected: 10/08/21 12:15
Date Received: 10/08/21 15:22

Lab Sample ID: 570-72281-5
Matrix: Seawater

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		45	33	ug/L		10/08/21 16:44	10/09/21 01:09	1
Total Petroleum Hydrocarbons (C8-C40)	33	J	45	33	ug/L		10/08/21 16:44	10/09/21 01:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	91		53 - 151				10/08/21 16:44	10/09/21 01:09	1

Client Sample Results

Client: City of Newport Beach
Project/Site: NB Oil Spill Response

Job ID: 570-72281-1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Client Sample ID: 15-1
Date Collected: 10/08/21 12:30
Date Received: 10/08/21 15:22

Lab Sample ID: 570-72281-6
Matrix: Seawater

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		46	33	ug/L		10/08/21 16:44	10/09/21 01:38	1
Total Petroleum Hydrocarbons (C8-C40)	ND		46	33	ug/L		10/08/21 16:44	10/09/21 01:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	96		53 - 151				10/08/21 16:44	10/09/21 01:38	1

Client Sample ID: 38-1
Date Collected: 10/08/21 13:00
Date Received: 10/08/21 15:22

Lab Sample ID: 570-72281-7
Matrix: Seawater

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		48	35	ug/L		10/08/21 16:44	10/09/21 02:08	1
Total Petroleum Hydrocarbons (C8-C40)	ND		48	35	ug/L		10/08/21 16:44	10/09/21 02:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	82		53 - 151				10/08/21 16:44	10/09/21 02:08	1

Client Sample ID: 52-1
Date Collected: 10/08/21 13:15
Date Received: 10/08/21 15:22

Lab Sample ID: 570-72281-8
Matrix: Seawater

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		46	33	ug/L		10/08/21 16:44	10/09/21 02:36	1
Total Petroleum Hydrocarbons (C8-C40)	ND		46	33	ug/L		10/08/21 16:44	10/09/21 02:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	102		53 - 151				10/08/21 16:44	10/09/21 02:36	1

Client Sample ID: OR-1
Date Collected: 10/08/21 13:25
Date Received: 10/08/21 15:22

Lab Sample ID: 570-72281-9
Matrix: Seawater

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		46	33	ug/L		10/08/21 16:44	10/09/21 03:06	1
Total Petroleum Hydrocarbons (C8-C40)	ND		46	33	ug/L		10/08/21 16:44	10/09/21 03:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	104		53 - 151				10/08/21 16:44	10/09/21 03:06	1

Client Sample ID: SAR-1
Date Collected: 10/08/21 13:35
Date Received: 10/08/21 15:22

Lab Sample ID: 570-72281-10
Matrix: Seawater

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		46	33	ug/L		10/08/21 16:44	10/09/21 03:35	1
Total Petroleum Hydrocarbons (C8-C40)	ND		46	33	ug/L		10/08/21 16:44	10/09/21 03:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	98		53 - 151				10/08/21 16:44	10/09/21 03:35	1

Client Sample Results

Client: City of Newport Beach
Project/Site: NB Oil Spill Response

Job ID: 570-72281-1

Method: 200.8 - Metals (ICP/MS)

Client Sample ID: LC-1
Date Collected: 10/08/21 10:30
Date Received: 10/08/21 15:22

Lab Sample ID: 570-72281-1
Matrix: Seawater

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.000764	J	0.00100	0.000582	mg/L		10/08/21 16:00	10/11/21 12:54	1
Cadmium	ND		0.00100	0.000138	mg/L		10/08/21 16:00	10/11/21 12:54	1
Chromium	0.00157		0.00100	0.000965	mg/L		10/08/21 16:00	10/11/21 12:54	1
Cobalt	ND		0.00100	0.000147	mg/L		10/08/21 16:00	10/11/21 12:54	1
Copper	0.00195		0.00100	0.000117	mg/L		10/08/21 16:00	10/11/21 12:54	1
Lead	0.0000575	J	0.00100	0.0000543	mg/L		10/08/21 16:00	10/11/21 12:54	1
Nickel	ND		0.00100	0.000249	mg/L		10/08/21 16:00	10/11/21 12:54	1
Selenium	0.00131		0.00100	0.000359	mg/L		10/08/21 16:00	10/11/21 12:54	1
Silver	ND		0.00100	0.000113	mg/L		10/08/21 16:00	10/11/21 12:54	1
Thallium	ND		0.00100	0.0000410	mg/L		10/08/21 16:00	10/11/21 12:54	1
Zinc	ND		0.00500	0.00450	mg/L		10/08/21 16:00	10/11/21 12:54	1

Client Sample ID: BC-1
Date Collected: 10/08/21 11:00
Date Received: 10/08/21 15:22

Lab Sample ID: 570-72281-2
Matrix: Seawater

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.000713	J	0.00100	0.000582	mg/L		10/08/21 16:00	10/11/21 13:09	1
Cadmium	ND		0.00100	0.000138	mg/L		10/08/21 16:00	10/11/21 13:09	1
Chromium	0.00143		0.00100	0.000965	mg/L		10/08/21 16:00	10/11/21 13:09	1
Cobalt	ND		0.00100	0.000147	mg/L		10/08/21 16:00	10/11/21 13:09	1
Copper	0.00111		0.00100	0.000117	mg/L		10/08/21 16:00	10/11/21 13:09	1
Lead	0.0000928	J	0.00100	0.0000543	mg/L		10/08/21 16:00	10/11/21 13:09	1
Nickel	ND		0.00100	0.000249	mg/L		10/08/21 16:00	10/11/21 13:09	1
Selenium	0.00113		0.00100	0.000359	mg/L		10/08/21 16:00	10/11/21 13:09	1
Silver	ND		0.00100	0.000113	mg/L		10/08/21 16:00	10/11/21 13:09	1
Thallium	ND		0.00100	0.0000410	mg/L		10/08/21 16:00	10/11/21 13:09	1
Zinc	ND		0.00500	0.00450	mg/L		10/08/21 16:00	10/11/21 13:09	1

Client Sample ID: CC-1
Date Collected: 10/08/21 11:15
Date Received: 10/08/21 15:22

Lab Sample ID: 570-72281-3
Matrix: Seawater

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00125		0.00100	0.000582	mg/L		10/08/21 16:00	10/11/21 13:12	1
Cadmium	ND		0.00100	0.000138	mg/L		10/08/21 16:00	10/11/21 13:12	1
Chromium	0.00213		0.00100	0.000965	mg/L		10/08/21 16:00	10/11/21 13:12	1
Cobalt	ND		0.00100	0.000147	mg/L		10/08/21 16:00	10/11/21 13:12	1
Copper	0.00239		0.00100	0.000117	mg/L		10/08/21 16:00	10/11/21 13:12	1
Lead	0.0000748	J	0.00100	0.0000543	mg/L		10/08/21 16:00	10/11/21 13:12	1
Nickel	ND		0.00100	0.000249	mg/L		10/08/21 16:00	10/11/21 13:12	1
Selenium	0.00187		0.00100	0.000359	mg/L		10/08/21 16:00	10/11/21 13:12	1
Silver	ND		0.00100	0.000113	mg/L		10/08/21 16:00	10/11/21 13:12	1
Thallium	ND		0.00100	0.0000410	mg/L		10/08/21 16:00	10/11/21 13:12	1
Zinc	ND		0.00500	0.00450	mg/L		10/08/21 16:00	10/11/21 13:12	1

Client Sample ID: WD-1
Date Collected: 10/08/21 11:50
Date Received: 10/08/21 15:22

Lab Sample ID: 570-72281-4
Matrix: Seawater

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00119		0.00100	0.000582	mg/L		10/08/21 16:00	10/11/21 13:15	1
Cadmium	ND		0.00100	0.000138	mg/L		10/08/21 16:00	10/11/21 13:15	1

Eurofins Calscience LLC

Client Sample Results

Client: City of Newport Beach
Project/Site: NB Oil Spill Response

Job ID: 570-72281-1

Method: 200.8 - Metals (ICP/MS) (Continued)

Client Sample ID: WD-1

Date Collected: 10/08/21 11:50

Date Received: 10/08/21 15:22

Lab Sample ID: 570-72281-4

Matrix: Seawater

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	0.00240		0.00100	0.000965	mg/L		10/08/21 16:00	10/11/21 13:15	1
Cobalt	ND		0.00100	0.000147	mg/L		10/08/21 16:00	10/11/21 13:15	1
Copper	0.00182		0.00100	0.000117	mg/L		10/08/21 16:00	10/11/21 13:15	1
Lead	0.000164	J	0.00100	0.0000543	mg/L		10/08/21 16:00	10/11/21 13:15	1
Nickel	ND		0.00100	0.000249	mg/L		10/08/21 16:00	10/11/21 13:15	1
Selenium	0.00171		0.00100	0.000359	mg/L		10/08/21 16:00	10/11/21 13:15	1
Silver	ND		0.00100	0.000113	mg/L		10/08/21 16:00	10/11/21 13:15	1
Thallium	ND		0.00100	0.0000410	mg/L		10/08/21 16:00	10/11/21 13:15	1
Zinc	ND		0.00500	0.00450	mg/L		10/08/21 16:00	10/11/21 13:15	1

Client Sample ID: BP-1

Date Collected: 10/08/21 12:15

Date Received: 10/08/21 15:22

Lab Sample ID: 570-72281-5

Matrix: Seawater

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00115		0.00100	0.000582	mg/L		10/08/21 16:00	10/11/21 13:18	1
Cadmium	ND		0.00100	0.000138	mg/L		10/08/21 16:00	10/11/21 13:18	1
Chromium	0.00226		0.00100	0.000965	mg/L		10/08/21 16:00	10/11/21 13:18	1
Cobalt	ND		0.00100	0.000147	mg/L		10/08/21 16:00	10/11/21 13:18	1
Copper	0.00185		0.00100	0.000117	mg/L		10/08/21 16:00	10/11/21 13:18	1
Lead	ND		0.00100	0.0000543	mg/L		10/08/21 16:00	10/11/21 13:18	1
Nickel	ND		0.00100	0.000249	mg/L		10/08/21 16:00	10/11/21 13:18	1
Selenium	0.00140		0.00100	0.000359	mg/L		10/08/21 16:00	10/11/21 13:18	1
Silver	ND		0.00100	0.000113	mg/L		10/08/21 16:00	10/11/21 13:18	1
Thallium	ND		0.00100	0.0000410	mg/L		10/08/21 16:00	10/11/21 13:18	1
Zinc	ND		0.00500	0.00450	mg/L		10/08/21 16:00	10/11/21 13:18	1

Client Sample ID: 15-1

Date Collected: 10/08/21 12:30

Date Received: 10/08/21 15:22

Lab Sample ID: 570-72281-6

Matrix: Seawater

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.00100	0.000582	mg/L		10/08/21 16:00	10/11/21 13:21	1
Cadmium	ND		0.00100	0.000138	mg/L		10/08/21 16:00	10/11/21 13:21	1
Chromium	0.00142		0.00100	0.000965	mg/L		10/08/21 16:00	10/11/21 13:21	1
Cobalt	ND		0.00100	0.000147	mg/L		10/08/21 16:00	10/11/21 13:21	1
Copper	0.00111		0.00100	0.000117	mg/L		10/08/21 16:00	10/11/21 13:21	1
Lead	ND		0.00100	0.0000543	mg/L		10/08/21 16:00	10/11/21 13:21	1
Nickel	ND		0.00100	0.000249	mg/L		10/08/21 16:00	10/11/21 13:21	1
Selenium	0.00148		0.00100	0.000359	mg/L		10/08/21 16:00	10/11/21 13:21	1
Silver	ND		0.00100	0.000113	mg/L		10/08/21 16:00	10/11/21 13:21	1
Thallium	ND		0.00100	0.0000410	mg/L		10/08/21 16:00	10/11/21 13:21	1
Zinc	ND		0.00500	0.00450	mg/L		10/08/21 16:00	10/11/21 13:21	1

Client Sample ID: 38-1

Date Collected: 10/08/21 13:00

Date Received: 10/08/21 15:22

Lab Sample ID: 570-72281-7

Matrix: Seawater

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00101		0.00100	0.000582	mg/L		10/08/21 16:00	10/11/21 13:24	1
Cadmium	ND		0.00100	0.000138	mg/L		10/08/21 16:00	10/11/21 13:24	1
Chromium	0.00217		0.00100	0.000965	mg/L		10/08/21 16:00	10/11/21 13:24	1
Cobalt	ND		0.00100	0.000147	mg/L		10/08/21 16:00	10/11/21 13:24	1

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Client Sample Results

Client: City of Newport Beach
Project/Site: NB Oil Spill Response

Job ID: 570-72281-1

Method: 200.8 - Metals (ICP/MS) (Continued)

Client Sample ID: 38-1
Date Collected: 10/08/21 13:00
Date Received: 10/08/21 15:22

Lab Sample ID: 570-72281-7
Matrix: Seawater

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	0.00175		0.00100	0.000117	mg/L		10/08/21 16:00	10/11/21 13:24	1
Lead	ND		0.00100	0.0000543	mg/L		10/08/21 16:00	10/11/21 13:24	1
Nickel	ND		0.00100	0.000249	mg/L		10/08/21 16:00	10/11/21 13:24	1
Selenium	0.00268		0.00100	0.000359	mg/L		10/08/21 16:00	10/11/21 13:24	1
Silver	ND		0.00100	0.000113	mg/L		10/08/21 16:00	10/11/21 13:24	1
Thallium	ND		0.00100	0.0000410	mg/L		10/08/21 16:00	10/11/21 13:24	1
Zinc	ND		0.00500	0.00450	mg/L		10/08/21 16:00	10/11/21 13:24	1

Client Sample ID: 52-1
Date Collected: 10/08/21 13:15
Date Received: 10/08/21 15:22

Lab Sample ID: 570-72281-8
Matrix: Seawater

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00114		0.00100	0.000582	mg/L		10/08/21 16:00	10/11/21 13:27	1
Cadmium	ND		0.00100	0.000138	mg/L		10/08/21 16:00	10/11/21 13:27	1
Chromium	0.00191		0.00100	0.000965	mg/L		10/08/21 16:00	10/11/21 13:27	1
Cobalt	ND		0.00100	0.000147	mg/L		10/08/21 16:00	10/11/21 13:27	1
Copper	0.00196		0.00100	0.000117	mg/L		10/08/21 16:00	10/11/21 13:27	1
Lead	0.000121	J	0.00100	0.0000543	mg/L		10/08/21 16:00	10/11/21 13:27	1
Nickel	ND		0.00100	0.000249	mg/L		10/08/21 16:00	10/11/21 13:27	1
Selenium	0.00237		0.00100	0.000359	mg/L		10/08/21 16:00	10/11/21 13:27	1
Silver	ND		0.00100	0.000113	mg/L		10/08/21 16:00	10/11/21 13:27	1
Thallium	ND		0.00100	0.0000410	mg/L		10/08/21 16:00	10/11/21 13:27	1
Zinc	ND		0.00500	0.00450	mg/L		10/08/21 16:00	10/11/21 13:27	1

Client Sample ID: OR-1
Date Collected: 10/08/21 13:25
Date Received: 10/08/21 15:22

Lab Sample ID: 570-72281-9
Matrix: Seawater

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00118		0.00100	0.000582	mg/L		10/08/21 16:00	10/11/21 13:30	1
Cadmium	ND		0.00100	0.000138	mg/L		10/08/21 16:00	10/11/21 13:30	1
Chromium	0.00214		0.00100	0.000965	mg/L		10/08/21 16:00	10/11/21 13:30	1
Cobalt	ND		0.00100	0.000147	mg/L		10/08/21 16:00	10/11/21 13:30	1
Copper	0.00193		0.00100	0.000117	mg/L		10/08/21 16:00	10/11/21 13:30	1
Lead	0.000101	J	0.00100	0.0000543	mg/L		10/08/21 16:00	10/11/21 13:30	1
Nickel	ND		0.00100	0.000249	mg/L		10/08/21 16:00	10/11/21 13:30	1
Selenium	0.00232		0.00100	0.000359	mg/L		10/08/21 16:00	10/11/21 13:30	1
Silver	ND		0.00100	0.000113	mg/L		10/08/21 16:00	10/11/21 13:30	1
Thallium	ND		0.00100	0.0000410	mg/L		10/08/21 16:00	10/11/21 13:30	1
Zinc	ND		0.00500	0.00450	mg/L		10/08/21 16:00	10/11/21 13:30	1

Client Sample ID: SAR-1
Date Collected: 10/08/21 13:35
Date Received: 10/08/21 15:22

Lab Sample ID: 570-72281-10
Matrix: Seawater

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00136		0.00100	0.000582	mg/L		10/08/21 16:00	10/11/21 13:33	1
Cadmium	ND		0.00100	0.000138	mg/L		10/08/21 16:00	10/11/21 13:33	1
Chromium	0.00212		0.00100	0.000965	mg/L		10/08/21 16:00	10/11/21 13:33	1
Cobalt	ND		0.00100	0.000147	mg/L		10/08/21 16:00	10/11/21 13:33	1
Copper	0.00177		0.00100	0.000117	mg/L		10/08/21 16:00	10/11/21 13:33	1
Lead	0.000119	J	0.00100	0.0000543	mg/L		10/08/21 16:00	10/11/21 13:33	1

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Client Sample Results

Client: City of Newport Beach
Project/Site: NB Oil Spill Response

Job ID: 570-72281-1

Method: 200.8 - Metals (ICP/MS) (Continued)

Client Sample ID: SAR-1

Date Collected: 10/08/21 13:35

Date Received: 10/08/21 15:22

Lab Sample ID: 570-72281-10

Matrix: Seawater

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	ND		0.00100	0.000249	mg/L		10/08/21 16:00	10/11/21 13:33	1
Selenium	0.00192		0.00100	0.000359	mg/L		10/08/21 16:00	10/11/21 13:33	1
Silver	ND		0.00100	0.000113	mg/L		10/08/21 16:00	10/11/21 13:33	1
Thallium	ND		0.00100	0.0000410	mg/L		10/08/21 16:00	10/11/21 13:33	1
Zinc	ND		0.00500	0.00450	mg/L		10/08/21 16:00	10/11/21 13:33	1

Client Sample Results

Client: City of Newport Beach
Project/Site: NB Oil Spill Response

Job ID: 570-72281-1

Method: 200.8 - Metals (ICP/MS) - Total Recoverable

Client Sample ID: LC-1
Date Collected: 10/08/21 10:30
Date Received: 10/08/21 15:22

Lab Sample ID: 570-72281-1
Matrix: Seawater

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.00552	J	0.0200	0.00320	mg/L		10/08/21 16:30	10/08/21 22:16	20
Beryllium	ND		0.0200	0.00420	mg/L		10/08/21 16:30	10/08/21 22:16	20
Molybdenum	ND		0.0200	0.0118	mg/L		10/08/21 16:30	10/08/21 22:16	20
Vanadium	0.00443	J	0.0200	0.00400	mg/L		10/08/21 16:30	10/08/21 22:16	20

Client Sample ID: BC-1
Date Collected: 10/08/21 11:00
Date Received: 10/08/21 15:22

Lab Sample ID: 570-72281-2
Matrix: Seawater

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.00594	J	0.0200	0.00320	mg/L		10/08/21 16:30	10/08/21 22:26	20
Beryllium	ND		0.0200	0.00420	mg/L		10/08/21 16:30	10/08/21 22:26	20
Molybdenum	0.0155	J	0.0200	0.0118	mg/L		10/08/21 16:30	10/08/21 22:26	20
Vanadium	0.00437	J	0.0200	0.00400	mg/L		10/08/21 16:30	10/08/21 22:26	20

Client Sample ID: CC-1
Date Collected: 10/08/21 11:15
Date Received: 10/08/21 15:22

Lab Sample ID: 570-72281-3
Matrix: Seawater

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.00581	J	0.0200	0.00320	mg/L		10/08/21 16:30	10/08/21 22:29	20
Beryllium	ND		0.0200	0.00420	mg/L		10/08/21 16:30	10/08/21 22:29	20
Molybdenum	ND		0.0200	0.0118	mg/L		10/08/21 16:30	10/08/21 22:29	20
Vanadium	ND		0.0200	0.00400	mg/L		10/08/21 16:30	10/08/21 22:29	20

Client Sample ID: WD-1
Date Collected: 10/08/21 11:50
Date Received: 10/08/21 15:22

Lab Sample ID: 570-72281-4
Matrix: Seawater

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.00581	J	0.0200	0.00320	mg/L		10/08/21 16:30	10/08/21 22:32	20
Beryllium	ND		0.0200	0.00420	mg/L		10/08/21 16:30	10/08/21 22:32	20
Molybdenum	ND		0.0200	0.0118	mg/L		10/08/21 16:30	10/08/21 22:32	20
Vanadium	ND		0.0200	0.00400	mg/L		10/08/21 16:30	10/08/21 22:32	20

Client Sample ID: BP-1
Date Collected: 10/08/21 12:15
Date Received: 10/08/21 15:22

Lab Sample ID: 570-72281-5
Matrix: Seawater

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.00541	J	0.0200	0.00320	mg/L		10/08/21 16:30	10/08/21 22:35	20
Beryllium	ND		0.0200	0.00420	mg/L		10/08/21 16:30	10/08/21 22:35	20
Molybdenum	ND		0.0200	0.0118	mg/L		10/08/21 16:30	10/08/21 22:35	20
Vanadium	ND		0.0200	0.00400	mg/L		10/08/21 16:30	10/08/21 22:35	20

Client Sample ID: 15-1
Date Collected: 10/08/21 12:30
Date Received: 10/08/21 15:22

Lab Sample ID: 570-72281-6
Matrix: Seawater

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.00491	J	0.0200	0.00320	mg/L		10/08/21 16:30	10/08/21 22:39	20
Beryllium	ND		0.0200	0.00420	mg/L		10/08/21 16:30	10/08/21 22:39	20
Molybdenum	ND		0.0200	0.0118	mg/L		10/08/21 16:30	10/08/21 22:39	20
Vanadium	ND		0.0200	0.00400	mg/L		10/08/21 16:30	10/08/21 22:39	20

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Client Sample Results

Client: City of Newport Beach
Project/Site: NB Oil Spill Response

Job ID: 570-72281-1

Method: 200.8 - Metals (ICP/MS) - Total Recoverable

Client Sample ID: 38-1
Date Collected: 10/08/21 13:00
Date Received: 10/08/21 15:22

Lab Sample ID: 570-72281-7
Matrix: Seawater

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.00556	J	0.0200	0.00320	mg/L		10/08/21 16:30	10/08/21 22:42	20
Beryllium	ND		0.0200	0.00420	mg/L		10/08/21 16:30	10/08/21 22:42	20
Molybdenum	ND		0.0200	0.0118	mg/L		10/08/21 16:30	10/08/21 22:42	20
Vanadium	ND		0.0200	0.00400	mg/L		10/08/21 16:30	10/08/21 22:42	20

Client Sample ID: 52-1
Date Collected: 10/08/21 13:15
Date Received: 10/08/21 15:22

Lab Sample ID: 570-72281-8
Matrix: Seawater

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.00505	J	0.0200	0.00320	mg/L		10/08/21 16:30	10/08/21 22:45	20
Beryllium	ND		0.0200	0.00420	mg/L		10/08/21 16:30	10/08/21 22:45	20
Molybdenum	ND		0.0200	0.0118	mg/L		10/08/21 16:30	10/08/21 22:45	20
Vanadium	ND		0.0200	0.00400	mg/L		10/08/21 16:30	10/08/21 22:45	20

Client Sample ID: OR-1
Date Collected: 10/08/21 13:25
Date Received: 10/08/21 15:22

Lab Sample ID: 570-72281-9
Matrix: Seawater

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0200	0.0100	mg/L		10/08/21 16:30	10/08/21 22:58	20
Barium	0.00539	J	0.0200	0.00320	mg/L		10/08/21 16:30	10/08/21 22:58	20
Beryllium	ND		0.0200	0.00420	mg/L		10/08/21 16:30	10/08/21 22:58	20
Molybdenum	ND		0.0200	0.0118	mg/L		10/08/21 16:30	10/08/21 22:58	20
Vanadium	ND		0.0200	0.00400	mg/L		10/08/21 16:30	10/08/21 22:58	20

Client Sample ID: SAR-1
Date Collected: 10/08/21 13:35
Date Received: 10/08/21 15:22

Lab Sample ID: 570-72281-10
Matrix: Seawater

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0200	0.0100	mg/L		10/08/21 16:30	10/08/21 23:01	20
Barium	0.00605	J	0.0200	0.00320	mg/L		10/08/21 16:30	10/08/21 23:01	20
Beryllium	ND		0.0200	0.00420	mg/L		10/08/21 16:30	10/08/21 23:01	20
Molybdenum	ND		0.0200	0.0118	mg/L		10/08/21 16:30	10/08/21 23:01	20
Vanadium	ND		0.0200	0.00400	mg/L		10/08/21 16:30	10/08/21 23:01	20

Client Sample Results

Client: City of Newport Beach
Project/Site: NB Oil Spill Response

Job ID: 570-72281-1

Method: 200.8 - Metals (ICP/MS) - Total Recoverable - RA

Client Sample ID: LC-1
Date Collected: 10/08/21 10:30
Date Received: 10/08/21 15:22

Lab Sample ID: 570-72281-1
Matrix: Seawater

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0200	0.0100	mg/L		10/08/21 16:30	10/11/21 10:54	20

Client Sample ID: BC-1
Date Collected: 10/08/21 11:00
Date Received: 10/08/21 15:22

Lab Sample ID: 570-72281-2
Matrix: Seawater

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0200	0.0100	mg/L		10/08/21 16:30	10/11/21 10:58	20

Client Sample ID: CC-1
Date Collected: 10/08/21 11:15
Date Received: 10/08/21 15:22

Lab Sample ID: 570-72281-3
Matrix: Seawater

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0200	0.0100	mg/L		10/08/21 16:30	10/11/21 11:00	20

Client Sample ID: WD-1
Date Collected: 10/08/21 11:50
Date Received: 10/08/21 15:22

Lab Sample ID: 570-72281-4
Matrix: Seawater

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0200	0.0100	mg/L		10/08/21 16:30	10/11/21 11:05	20

Client Sample ID: BP-1
Date Collected: 10/08/21 12:15
Date Received: 10/08/21 15:22

Lab Sample ID: 570-72281-5
Matrix: Seawater

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0200	0.0100	mg/L		10/08/21 16:30	10/11/21 11:06	20

Client Sample ID: 15-1
Date Collected: 10/08/21 12:30
Date Received: 10/08/21 15:22

Lab Sample ID: 570-72281-6
Matrix: Seawater

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0200	0.0100	mg/L		10/08/21 16:30	10/11/21 11:08	20

Client Sample ID: 38-1
Date Collected: 10/08/21 13:00
Date Received: 10/08/21 15:22

Lab Sample ID: 570-72281-7
Matrix: Seawater

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0200	0.0100	mg/L		10/08/21 16:30	10/11/21 11:09	20

Client Sample ID: 52-1
Date Collected: 10/08/21 13:15
Date Received: 10/08/21 15:22

Lab Sample ID: 570-72281-8
Matrix: Seawater

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0200	0.0100	mg/L		10/08/21 16:30	10/11/21 11:11	20

Client Sample Results

Client: City of Newport Beach
Project/Site: NB Oil Spill Response

Job ID: 570-72281-1

Method: 7470A - Mercury (CVAA)

Client Sample ID: LC-1
Date Collected: 10/08/21 10:30
Date Received: 10/08/21 15:22

Lab Sample ID: 570-72281-1
Matrix: Seawater

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.000500	0.000141	mg/L		10/08/21 16:30	10/11/21 13:02	1

Client Sample ID: BC-1
Date Collected: 10/08/21 11:00
Date Received: 10/08/21 15:22

Lab Sample ID: 570-72281-2
Matrix: Seawater

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.000500	0.000141	mg/L		10/08/21 16:30	10/11/21 13:04	1

Client Sample ID: CC-1
Date Collected: 10/08/21 11:15
Date Received: 10/08/21 15:22

Lab Sample ID: 570-72281-3
Matrix: Seawater

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.000500	0.000141	mg/L		10/08/21 16:30	10/11/21 13:06	1

Client Sample ID: WD-1
Date Collected: 10/08/21 11:50
Date Received: 10/08/21 15:22

Lab Sample ID: 570-72281-4
Matrix: Seawater

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.000500	0.000141	mg/L		10/08/21 16:30	10/11/21 13:08	1

Client Sample ID: BP-1
Date Collected: 10/08/21 12:15
Date Received: 10/08/21 15:22

Lab Sample ID: 570-72281-5
Matrix: Seawater

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.000500	0.000141	mg/L		10/08/21 16:30	10/11/21 13:10	1

Client Sample ID: 15-1
Date Collected: 10/08/21 12:30
Date Received: 10/08/21 15:22

Lab Sample ID: 570-72281-6
Matrix: Seawater

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.000500	0.000141	mg/L		10/08/21 16:30	10/11/21 13:12	1

Client Sample ID: 38-1
Date Collected: 10/08/21 13:00
Date Received: 10/08/21 15:22

Lab Sample ID: 570-72281-7
Matrix: Seawater

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.000500	0.000141	mg/L		10/08/21 16:30	10/11/21 13:13	1

Client Sample ID: 52-1
Date Collected: 10/08/21 13:15
Date Received: 10/08/21 15:22

Lab Sample ID: 570-72281-8
Matrix: Seawater

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.000500	0.000141	mg/L		10/08/21 16:30	10/11/21 13:15	1

Client Sample ID: OR-1
Date Collected: 10/08/21 13:25
Date Received: 10/08/21 15:22

Lab Sample ID: 570-72281-9
Matrix: Seawater

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.000500	0.000141	mg/L		10/08/21 16:30	10/11/21 13:17	1

Client Sample Results

Client: City of Newport Beach
Project/Site: NB Oil Spill Response

Job ID: 570-72281-1

Method: 7470A - Mercury (CVAA)

Client Sample ID: SAR-1
Date Collected: 10/08/21 13:35
Date Received: 10/08/21 15:22

Lab Sample ID: 570-72281-10
Matrix: Seawater

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.000500	0.000141	mg/L		10/08/21 16:30	10/11/21 13:19	1

Surrogate Summary

Client: City of Newport Beach
Project/Site: NB Oil Spill Response

Job ID: 570-72281-1

Method: 8270C SIM - PAHs (GC/MS SIM)

Matrix: Seawater

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		FBP (33-144)	NBZ (28-139)	TPHd14 (23-160)
570-72281-1	LC-1	93	85	89
570-72281-2	BC-1	79	72	79
570-72281-3	CC-1	80	71	79
570-72281-4	WD-1	88	75	85
570-72281-5	BP-1	79	69	79
570-72281-6	15-1	74	69	76
570-72281-7	38-1	79	70	83
570-72281-8	52-1	64	58	70
570-72281-9	OR-1	66	60	69
570-72281-10	SAR-1	75	68	77

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)
NBZ = Nitrobenzene-d5 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)

Method: 8270C SIM - PAHs (GC/MS SIM)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		FBP (33-144)	NBZ (28-139)	TPHd14 (23-160)
LCS 570-184919/2-A	Lab Control Sample	63	73	78
LCSD 570-184919/3-A	Lab Control Sample Dup	65	76	73
MB 570-184919/1-A	Method Blank	65	76	76

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)
NBZ = Nitrobenzene-d5 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)

Method: 8015B - Diesel Range Organics (DRO) (GC)

Matrix: Seawater

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		OTCSN1 (53-151)		
570-72281-1	LC-1	107		
570-72281-2	BC-1	101		
570-72281-3	CC-1	99		
570-72281-4	WD-1	102		
570-72281-5	BP-1	91		
570-72281-6	15-1	96		
570-72281-7	38-1	82		
570-72281-8	52-1	102		
570-72281-9	OR-1	104		
570-72281-10	SAR-1	98		

Surrogate Legend

OTCSN = n-Octacosane (Surr)

Surrogate Summary

Client: City of Newport Beach
Project/Site: NB Oil Spill Response

Job ID: 570-72281-1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	OTCSN1 (53-151)
LCS 570-185177/2-A	Lab Control Sample	107
LCS 570-185177/4-A	Lab Control Sample	102
LCSD 570-185177/3-A	Lab Control Sample Dup	107
LCSD 570-185177/5-A	Lab Control Sample Dup	105
MB 570-185177/1-A	Method Blank	101

Surrogate Legend

OTCSN = n-Octacosane (Surr)

QC Sample Results

Client: City of Newport Beach
Project/Site: NB Oil Spill Response

Job ID: 570-72281-1

Method: 8270C SIM - PAHs (GC/MS SIM)

Lab Sample ID: MB 570-184919/1-A

Matrix: Water

Analysis Batch: 185044

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 184919

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	ND		0.20	0.073	ug/L		10/08/21 06:59	10/08/21 12:15	1
2-Methylnaphthalene	ND		0.20	0.077	ug/L		10/08/21 06:59	10/08/21 12:15	1
Acenaphthene	ND		0.20	0.097	ug/L		10/08/21 06:59	10/08/21 12:15	1
Acenaphthylene	ND		0.20	0.069	ug/L		10/08/21 06:59	10/08/21 12:15	1
Anthracene	ND		0.20	0.059	ug/L		10/08/21 06:59	10/08/21 12:15	1
Benzo[g,h,i]perylene	ND		0.20	0.10	ug/L		10/08/21 06:59	10/08/21 12:15	1
Benzo[k]fluoranthene	ND		0.20	0.093	ug/L		10/08/21 06:59	10/08/21 12:15	1
Benzo[a]anthracene	ND		0.20	0.086	ug/L		10/08/21 06:59	10/08/21 12:15	1
Benzo[a]pyrene	ND		0.20	0.063	ug/L		10/08/21 06:59	10/08/21 12:15	1
Benzo[b]fluoranthene	ND		0.20	0.12	ug/L		10/08/21 06:59	10/08/21 12:15	1
Chrysene	ND		0.20	0.059	ug/L		10/08/21 06:59	10/08/21 12:15	1
Dibenz(a,h)anthracene	ND		0.20	0.12	ug/L		10/08/21 06:59	10/08/21 12:15	1
Fluoranthene	ND		0.20	0.068	ug/L		10/08/21 06:59	10/08/21 12:15	1
Fluorene	ND		0.20	0.075	ug/L		10/08/21 06:59	10/08/21 12:15	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.11	ug/L		10/08/21 06:59	10/08/21 12:15	1
Naphthalene	ND		0.20	0.083	ug/L		10/08/21 06:59	10/08/21 12:15	1
Phenanthrene	ND		0.20	0.073	ug/L		10/08/21 06:59	10/08/21 12:15	1
Pyrene	ND		0.20	0.066	ug/L		10/08/21 06:59	10/08/21 12:15	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	65		33 - 144	10/08/21 06:59	10/08/21 12:15	1
Nitrobenzene-d5 (Surr)	76		28 - 139	10/08/21 06:59	10/08/21 12:15	1
p-Terphenyl-d14 (Surr)	76		23 - 160	10/08/21 06:59	10/08/21 12:15	1

Lab Sample ID: LCS 570-184919/2-A

Matrix: Water

Analysis Batch: 185044

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 184919

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1-Methylnaphthalene	2.00	1.460		ug/L		73	20 - 140
2-Methylnaphthalene	2.00	1.657		ug/L		83	21 - 140
Acenaphthene	2.00	1.292		ug/L		65	55 - 121
Acenaphthylene	2.00	1.481		ug/L		74	33 - 145
Anthracene	2.00	1.438		ug/L		72	27 - 133
Benzo[g,h,i]perylene	2.00	1.342		ug/L		67	25 - 157
Benzo[k]fluoranthene	2.00	1.415		ug/L		71	24 - 159
Benzo[a]anthracene	2.00	1.370		ug/L		69	33 - 143
Benzo[a]pyrene	2.00	1.508		ug/L		75	17 - 163
Benzo[b]fluoranthene	2.00	1.372		ug/L		69	24 - 159
Chrysene	2.00	1.406		ug/L		70	17 - 168
Dibenz(a,h)anthracene	2.00	1.264		ug/L		63	25 - 175
Fluoranthene	2.00	1.433		ug/L		72	26 - 137
Fluorene	2.00	1.340		ug/L		67	59 - 121
Indeno[1,2,3-cd]pyrene	2.00	1.259		ug/L		63	25 - 175
Naphthalene	2.00	1.316		ug/L		66	21 - 133
Phenanthrene	2.00	1.383		ug/L		69	54 - 120
Pyrene	2.00	1.493		ug/L		75	45 - 129

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QC Sample Results

Client: City of Newport Beach
Project/Site: NB Oil Spill Response

Job ID: 570-72281-1

Method: 8270C SIM - PAHs (GC/MS SIM) (Continued)

Lab Sample ID: LCS 570-184919/2-A

Matrix: Water

Analysis Batch: 185044

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 184919

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
2-Fluorobiphenyl (Surr)	63		33 - 144
Nitrobenzene-d5 (Surr)	73		28 - 139
p-Terphenyl-d14 (Surr)	78		23 - 160

Lab Sample ID: LCSD 570-184919/3-A

Matrix: Water

Analysis Batch: 185044

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 184919

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1-Methylnaphthalene	2.00	1.540		ug/L		77	20 - 140	5	25
2-Methylnaphthalene	2.00	1.744		ug/L		87	21 - 140	5	25
Acenaphthene	2.00	1.337		ug/L		67	55 - 121	3	25
Acenaphthylene	2.00	1.544		ug/L		77	33 - 145	4	25
Anthracene	2.00	1.509		ug/L		75	27 - 133	5	25
Benzo[g,h,i]perylene	2.00	1.366		ug/L		68	25 - 157	2	25
Benzo[k]fluoranthene	2.00	1.507		ug/L		75	24 - 159	6	25
Benzo[a]anthracene	2.00	1.448		ug/L		72	33 - 143	6	25
Benzo[a]pyrene	2.00	1.536		ug/L		77	17 - 163	2	25
Benzo[b]fluoranthene	2.00	1.383		ug/L		69	24 - 159	1	25
Chrysene	2.00	1.423		ug/L		71	17 - 168	1	25
Dibenz(a,h)anthracene	2.00	1.297		ug/L		65	25 - 175	3	25
Fluoranthene	2.00	1.434		ug/L		72	26 - 137	0	25
Fluorene	2.00	1.372		ug/L		69	59 - 121	2	25
Indeno[1,2,3-cd]pyrene	2.00	1.264		ug/L		63	25 - 175	0	25
Naphthalene	2.00	1.399		ug/L		70	21 - 133	6	25
Phenanthrene	2.00	1.338		ug/L		67	54 - 120	3	25
Pyrene	2.00	1.442		ug/L		72	45 - 129	3	25

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
2-Fluorobiphenyl (Surr)	65		33 - 144
Nitrobenzene-d5 (Surr)	76		28 - 139
p-Terphenyl-d14 (Surr)	73		23 - 160

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 570-185177/1-A

Matrix: Water

Analysis Batch: 184951

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 185177

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		50	36	ug/L		10/08/21 16:44	10/08/21 20:47	1
Total Petroleum Hydrocarbons (C8-C40)	ND		50	36	ug/L		10/08/21 16:44	10/08/21 20:47	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	101		53 - 151	10/08/21 16:44	10/08/21 20:47	1

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QC Sample Results

Client: City of Newport Beach
Project/Site: NB Oil Spill Response

Job ID: 570-72281-1

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 570-185177/2-A

Matrix: Water

Analysis Batch: 184951

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 185177

			Spike	LCS	LCS				%Rec.		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits		
Diesel Range Organics [C10-C28]			4000	4567		ug/L		114	70 - 131		
			LCS	LCS							
Surrogate	%Recovery	Qualifier	Limits								
n-Octacosane (Surr)	107		53 - 151								

Lab Sample ID: LCS 570-185177/4-A

Matrix: Water

Analysis Batch: 184951

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 185177

Analysis Data: 10-100				Top Data: 100%							
Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
TPH as Motor Oil (C17-C44)			4000	4204		ug/L		105	57 - 137		
Surrogate		LCS %Recovery	LCS Qualifier	Limits							
n-Octacosane (Surr)		102		53 - 151							

Lab Sample ID: LCSD 570-185177/3-A

Matrix: Water

Analysis Batch: 184951

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 185177

Analysis Date: 10/10/17							Rep Date: 10/17/17				
Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]			4000	4663		ug/L	-	117	70 - 131	2	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits								
n-Octacosane (Surr)	107		53 - 151								

Lab Sample ID: LCSD 570-185177/5-A

Matrix: Water

Analysis Batch: 184951

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 185177

Top Entry: 10/10/17							Top Entry: 10/10/17				
Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Motor Oil (C17-C44)			4000	4366		ug/L		109	57 - 137	4	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits								
n-Octacosane (Surr)	105		53 - 151								

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 570-184973/1-A

Matrix: Water

Analysis Batch: 185531

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 184973

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.00100	0.000582	mg/L		10/08/21 16:00	10/11/21 12:37	1
Cadmium	ND		0.00100	0.000138	mg/L		10/08/21 16:00	10/11/21 12:37	1
Chromium	ND		0.00100	0.000965	mg/L		10/08/21 16:00	10/11/21 12:37	1
Cobalt	ND		0.00100	0.000147	mg/L		10/08/21 16:00	10/11/21 12:37	1

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QC Sample Results

Client: City of Newport Beach
Project/Site: NB Oil Spill Response

Job ID: 570-72281-1

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 570-184973/1-A

Matrix: Water

Analysis Batch: 185531

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 184973

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	ND		0.00100	0.000117	mg/L		10/08/21 16:00	10/11/21 12:37	1
Lead	ND		0.00100	0.0000543	mg/L		10/08/21 16:00	10/11/21 12:37	1
Nickel	ND		0.00100	0.000249	mg/L		10/08/21 16:00	10/11/21 12:37	1
Selenium	ND		0.00100	0.000359	mg/L		10/08/21 16:00	10/11/21 12:37	1
Silver	ND		0.00100	0.000113	mg/L		10/08/21 16:00	10/11/21 12:37	1
Thallium	ND		0.00100	0.0000410	mg/L		10/08/21 16:00	10/11/21 12:37	1
Zinc	ND		0.00500	0.00450	mg/L		10/08/21 16:00	10/11/21 12:37	1

Lab Sample ID: LCS 570-184973/2-A

Matrix: Water

Analysis Batch: 185531

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 184973

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.0100	0.008491		mg/L		85	50 - 130
Cadmium	0.0100	0.009069		mg/L		91	50 - 130
Chromium	0.0100	0.009298		mg/L		93	50 - 130
Cobalt	0.0100	0.008686		mg/L		87	50 - 130
Copper	0.0100	0.009207		mg/L		92	50 - 130
Lead	0.0100	0.008672		mg/L		87	50 - 130
Nickel	0.0100	0.009212		mg/L		92	50 - 130
Selenium	0.0100	0.008499		mg/L		85	50 - 130
Silver	0.00500	0.004543		mg/L		91	50 - 130
Thallium	0.0100	0.008167		mg/L		82	50 - 130
Zinc	0.0100	0.008821		mg/L		88	50 - 130

Lab Sample ID: LCSD 570-184973/3-A

Matrix: Water

Analysis Batch: 185531

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 184973

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Arsenic	0.0100	0.008740		mg/L		87	50 - 130	3	30
Cadmium	0.0100	0.009143		mg/L		91	50 - 130	1	30
Chromium	0.0100	0.009761		mg/L		98	50 - 130	5	30
Cobalt	0.0100	0.008817		mg/L		88	50 - 130	1	30
Copper	0.0100	0.009350		mg/L		94	50 - 130	2	30
Lead	0.0100	0.008774		mg/L		88	50 - 130	1	30
Nickel	0.0100	0.009200		mg/L		92	50 - 130	0	30
Selenium	0.0100	0.007377		mg/L		74	50 - 130	14	30
Silver	0.00500	0.004584		mg/L		92	50 - 130	1	30
Thallium	0.0100	0.008231		mg/L		82	50 - 130	1	30
Zinc	0.0100	0.009022		mg/L		90	50 - 130	2	30

Lab Sample ID: MB 570-184971/1-A

Matrix: Water

Analysis Batch: 185001

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 184971

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00100	0.000500	mg/L		10/08/21 08:20	10/08/21 11:53	1
Barium	ND		0.00100	0.000160	mg/L		10/08/21 08:20	10/08/21 11:53	1

Eurofins Calscience LLC

QC Sample Results

Client: City of Newport Beach
Project/Site: NB Oil Spill Response

Job ID: 570-72281-1

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 570-184971/1-A
Matrix: Water
Analysis Batch: 185001

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 184971

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Molybdenum	ND		0.00100	0.000590	mg/L		10/08/21 08:20	10/08/21 11:53	1
Vanadium	ND		0.00100	0.000200	mg/L		10/08/21 08:20	10/08/21 11:53	1

Lab Sample ID: LCS 570-184971/2-A
Matrix: Water
Analysis Batch: 185001

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 184971

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.100	0.09996		mg/L		100	80 - 120
Barium	0.100	0.09836		mg/L		98	80 - 120
Molybdenum	0.100	0.1074		mg/L		107	80 - 120
Vanadium	0.100	0.1036		mg/L		104	80 - 120

Lab Sample ID: LCSD 570-184971/3-A
Matrix: Water
Analysis Batch: 185001

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 184971

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	0.100	0.1014		mg/L		101	80 - 120	1	20
Barium	0.100	0.09825		mg/L		98	80 - 120	0	20
Molybdenum	0.100	0.1074		mg/L		107	80 - 120	0	20
Vanadium	0.100	0.1042		mg/L		104	80 - 120	1	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 570-184920/1-A
Matrix: Water
Analysis Batch: 185117

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 184920

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.000500	0.000141	mg/L		10/08/21 06:16	10/08/21 17:25	1

Lab Sample ID: LCS 570-184920/2-A
Matrix: Water
Analysis Batch: 185117

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 184920

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.0100	0.01049		mg/L		105	80 - 120

Lab Sample ID: LCSD 570-184920/3-A
Matrix: Water
Analysis Batch: 185117

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 184920

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.0100	0.01056		mg/L		106	80 - 120	1	20

QC Association Summary

Client: City of Newport Beach
Project/Site: NB Oil Spill Response

Job ID: 570-72281-1

GC/MS Semi VOA

Prep Batch: 184919

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-72281-1	LC-1	Total/NA	Seawater	3510C	
570-72281-2	BC-1	Total/NA	Seawater	3510C	
570-72281-3	CC-1	Total/NA	Seawater	3510C	
570-72281-4	WD-1	Total/NA	Seawater	3510C	
570-72281-5	BP-1	Total/NA	Seawater	3510C	
570-72281-6	15-1	Total/NA	Seawater	3510C	
570-72281-7	38-1	Total/NA	Seawater	3510C	
570-72281-8	52-1	Total/NA	Seawater	3510C	
570-72281-9	OR-1	Total/NA	Seawater	3510C	
570-72281-10	SAR-1	Total/NA	Seawater	3510C	
MB 570-184919/1-A	Method Blank	Total/NA	Water	3510C	
LCS 570-184919/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 570-184919/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 185044

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 570-184919/1-A	Method Blank	Total/NA	Water	8270C SIM	184919
LCS 570-184919/2-A	Lab Control Sample	Total/NA	Water	8270C SIM	184919
LCSD 570-184919/3-A	Lab Control Sample Dup	Total/NA	Water	8270C SIM	184919

Analysis Batch: 185249

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-72281-1	LC-1	Total/NA	Seawater	8270C SIM	184919
570-72281-2	BC-1	Total/NA	Seawater	8270C SIM	184919
570-72281-3	CC-1	Total/NA	Seawater	8270C SIM	184919
570-72281-4	WD-1	Total/NA	Seawater	8270C SIM	184919
570-72281-5	BP-1	Total/NA	Seawater	8270C SIM	184919
570-72281-6	15-1	Total/NA	Seawater	8270C SIM	184919
570-72281-7	38-1	Total/NA	Seawater	8270C SIM	184919
570-72281-8	52-1	Total/NA	Seawater	8270C SIM	184919
570-72281-9	OR-1	Total/NA	Seawater	8270C SIM	184919
570-72281-10	SAR-1	Total/NA	Seawater	8270C SIM	184919

GC Semi VOA

Analysis Batch: 184951

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-72281-1	LC-1	Total/NA	Seawater	8015B	185177
570-72281-2	BC-1	Total/NA	Seawater	8015B	185177
570-72281-3	CC-1	Total/NA	Seawater	8015B	185177
570-72281-4	WD-1	Total/NA	Seawater	8015B	185177
570-72281-5	BP-1	Total/NA	Seawater	8015B	185177
570-72281-6	15-1	Total/NA	Seawater	8015B	185177
570-72281-7	38-1	Total/NA	Seawater	8015B	185177
570-72281-8	52-1	Total/NA	Seawater	8015B	185177
570-72281-9	OR-1	Total/NA	Seawater	8015B	185177
570-72281-10	SAR-1	Total/NA	Seawater	8015B	185177
MB 570-185177/1-A	Method Blank	Total/NA	Water	8015B	185177
LCS 570-185177/2-A	Lab Control Sample	Total/NA	Water	8015B	185177
LCS 570-185177/4-A	Lab Control Sample	Total/NA	Water	8015B	185177
LCSD 570-185177/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	185177

Eurofins Calscience LLC

QC Association Summary

Client: City of Newport Beach
Project/Site: NB Oil Spill Response

Job ID: 570-72281-1

GC Semi VOA (Continued)

Analysis Batch: 184951 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 570-185177/5-A	Lab Control Sample Dup	Total/NA	Water	8015B	185177

Prep Batch: 185177

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-72281-1	LC-1	Total/NA	Seawater	3510C	
570-72281-2	BC-1	Total/NA	Seawater	3510C	
570-72281-3	CC-1	Total/NA	Seawater	3510C	
570-72281-4	WD-1	Total/NA	Seawater	3510C	
570-72281-5	BP-1	Total/NA	Seawater	3510C	
570-72281-6	15-1	Total/NA	Seawater	3510C	
570-72281-7	38-1	Total/NA	Seawater	3510C	
570-72281-8	52-1	Total/NA	Seawater	3510C	
570-72281-9	OR-1	Total/NA	Seawater	3510C	
570-72281-10	SAR-1	Total/NA	Seawater	3510C	
MB 570-185177/1-A	Method Blank	Total/NA	Water	3510C	
LCS 570-185177/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCS 570-185177/4-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 570-185177/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
LCSD 570-185177/5-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Metals

Prep Batch: 184920

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-72281-1	LC-1	Total/NA	Seawater	7470A	
570-72281-2	BC-1	Total/NA	Seawater	7470A	
570-72281-3	CC-1	Total/NA	Seawater	7470A	
570-72281-4	WD-1	Total/NA	Seawater	7470A	
570-72281-5	BP-1	Total/NA	Seawater	7470A	
570-72281-6	15-1	Total/NA	Seawater	7470A	
570-72281-7	38-1	Total/NA	Seawater	7470A	
570-72281-8	52-1	Total/NA	Seawater	7470A	
570-72281-9	OR-1	Total/NA	Seawater	7470A	
570-72281-10	SAR-1	Total/NA	Seawater	7470A	
MB 570-184920/1-A	Method Blank	Total/NA	Water	7470A	
LCS 570-184920/2-A	Lab Control Sample	Total/NA	Water	7470A	
LCSD 570-184920/3-A	Lab Control Sample Dup	Total/NA	Water	7470A	

Prep Batch: 184971

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-72281-1	LC-1	Total Recoverable	Seawater	200.8	
570-72281-1 - RA	LC-1	Total Recoverable	Seawater	200.8	
570-72281-2	BC-1	Total Recoverable	Seawater	200.8	
570-72281-2 - RA	BC-1	Total Recoverable	Seawater	200.8	
570-72281-3 - RA	CC-1	Total Recoverable	Seawater	200.8	
570-72281-3	CC-1	Total Recoverable	Seawater	200.8	
570-72281-4 - RA	WD-1	Total Recoverable	Seawater	200.8	
570-72281-4	WD-1	Total Recoverable	Seawater	200.8	
570-72281-5 - RA	BP-1	Total Recoverable	Seawater	200.8	
570-72281-5	BP-1	Total Recoverable	Seawater	200.8	
570-72281-6 - RA	15-1	Total Recoverable	Seawater	200.8	

Eurofins Calscience LLC

QC Association Summary

Client: City of Newport Beach
Project/Site: NB Oil Spill Response

Job ID: 570-72281-1

Metals (Continued)

Prep Batch: 184971 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-72281-6	15-1	Total Recoverable	Seawater	200.8	
570-72281-7 - RA	38-1	Total Recoverable	Seawater	200.8	
570-72281-7	38-1	Total Recoverable	Seawater	200.8	
570-72281-8 - RA	52-1	Total Recoverable	Seawater	200.8	
570-72281-8	52-1	Total Recoverable	Seawater	200.8	
570-72281-9	OR-1	Total Recoverable	Seawater	200.8	
570-72281-10	SAR-1	Total Recoverable	Seawater	200.8	
MB 570-184971/1-A	Method Blank	Total Recoverable	Water	200.8	
LCS 570-184971/2-A	Lab Control Sample	Total Recoverable	Water	200.8	
LCSD 570-184971/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.8	

Prep Batch: 184973

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-72281-1	LC-1	Total/NA	Seawater	200.8 RP Prep	
570-72281-2	BC-1	Total/NA	Seawater	200.8 RP Prep	
570-72281-3	CC-1	Total/NA	Seawater	200.8 RP Prep	
570-72281-4	WD-1	Total/NA	Seawater	200.8 RP Prep	
570-72281-5	BP-1	Total/NA	Seawater	200.8 RP Prep	
570-72281-6	15-1	Total/NA	Seawater	200.8 RP Prep	
570-72281-7	38-1	Total/NA	Seawater	200.8 RP Prep	
570-72281-8	52-1	Total/NA	Seawater	200.8 RP Prep	
570-72281-9	OR-1	Total/NA	Seawater	200.8 RP Prep	
570-72281-10	SAR-1	Total/NA	Seawater	200.8 RP Prep	
MB 570-184973/1-A	Method Blank	Total/NA	Water	200.8 RP Prep	
LCS 570-184973/2-A	Lab Control Sample	Total/NA	Water	200.8 RP Prep	
LCSD 570-184973/3-A	Lab Control Sample Dup	Total/NA	Water	200.8 RP Prep	

Analysis Batch: 185001

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-72281-1	LC-1	Total Recoverable	Seawater	200.8	184971
570-72281-2	BC-1	Total Recoverable	Seawater	200.8	184971
570-72281-3	CC-1	Total Recoverable	Seawater	200.8	184971
570-72281-4	WD-1	Total Recoverable	Seawater	200.8	184971
570-72281-5	BP-1	Total Recoverable	Seawater	200.8	184971
570-72281-6	15-1	Total Recoverable	Seawater	200.8	184971
570-72281-7	38-1	Total Recoverable	Seawater	200.8	184971
570-72281-8	52-1	Total Recoverable	Seawater	200.8	184971
570-72281-9	OR-1	Total Recoverable	Seawater	200.8	184971
570-72281-10	SAR-1	Total Recoverable	Seawater	200.8	184971
MB 570-184971/1-A	Method Blank	Total Recoverable	Water	200.8	184971
LCS 570-184971/2-A	Lab Control Sample	Total Recoverable	Water	200.8	184971
LCSD 570-184971/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.8	184971

Analysis Batch: 185117

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 570-184920/1-A	Method Blank	Total/NA	Water	7470A	184920
LCS 570-184920/2-A	Lab Control Sample	Total/NA	Water	7470A	184920
LCSD 570-184920/3-A	Lab Control Sample Dup	Total/NA	Water	7470A	184920

QC Association Summary

Client: City of Newport Beach
Project/Site: NB Oil Spill Response

Job ID: 570-72281-1

Metals

Analysis Batch: 185531

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-72281-1 - RA	LC-1	Total Recoverable	Seawater	200.8	184971
570-72281-1	LC-1	Total/NA	Seawater	200.8	184973
570-72281-2 - RA	BC-1	Total Recoverable	Seawater	200.8	184971
570-72281-2	BC-1	Total/NA	Seawater	200.8	184973
570-72281-3 - RA	CC-1	Total Recoverable	Seawater	200.8	184971
570-72281-3	CC-1	Total/NA	Seawater	200.8	184973
570-72281-4 - RA	WD-1	Total Recoverable	Seawater	200.8	184971
570-72281-4	WD-1	Total/NA	Seawater	200.8	184973
570-72281-5 - RA	BP-1	Total Recoverable	Seawater	200.8	184971
570-72281-5	BP-1	Total/NA	Seawater	200.8	184973
570-72281-6 - RA	15-1	Total Recoverable	Seawater	200.8	184971
570-72281-6	15-1	Total/NA	Seawater	200.8	184973
570-72281-7 - RA	38-1	Total Recoverable	Seawater	200.8	184971
570-72281-7	38-1	Total/NA	Seawater	200.8	184973
570-72281-8 - RA	52-1	Total Recoverable	Seawater	200.8	184971
570-72281-8	52-1	Total/NA	Seawater	200.8	184973
570-72281-9	OR-1	Total/NA	Seawater	200.8	184973
570-72281-10	SAR-1	Total/NA	Seawater	200.8	184973
MB 570-184973/1-A	Method Blank	Total/NA	Water	200.8	184973
LCS 570-184973/2-A	Lab Control Sample	Total/NA	Water	200.8	184973
LCSD 570-184973/3-A	Lab Control Sample Dup	Total/NA	Water	200.8	184973

Analysis Batch: 185605

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-72281-1	LC-1	Total/NA	Seawater	7470A	184920
570-72281-2	BC-1	Total/NA	Seawater	7470A	184920
570-72281-3	CC-1	Total/NA	Seawater	7470A	184920
570-72281-4	WD-1	Total/NA	Seawater	7470A	184920
570-72281-5	BP-1	Total/NA	Seawater	7470A	184920
570-72281-6	15-1	Total/NA	Seawater	7470A	184920
570-72281-7	38-1	Total/NA	Seawater	7470A	184920
570-72281-8	52-1	Total/NA	Seawater	7470A	184920
570-72281-9	OR-1	Total/NA	Seawater	7470A	184920
570-72281-10	SAR-1	Total/NA	Seawater	7470A	184920

Lab Chronicle

Client: City of Newport Beach
Project/Site: NB Oil Spill Response

Job ID: 570-72281-1

Client Sample ID: LC-1

Lab Sample ID: 570-72281-1

Date Collected: 10/08/21 10:30

Matrix: Seawater

Date Received: 10/08/21 15:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			1070.2 mL	2 mL	184919	10/08/21 18:07	H1SH	ECL 1
Total/NA	Analysis	8270C SIM		1			185249	10/09/21 11:47	N8CZ	ECL 1
		Instrument ID: GCMSEEE								
Total/NA	Prep	3510C			262.1 mL	2.5 mL	185177	10/08/21 16:44	UFLU	ECL 1
Total/NA	Analysis	8015B		1			184951	10/08/21 23:12	UJ3K	ECL 1
		Instrument ID: GC93A								
Total Recoverable	Prep	200.8			50 mL	50 mL	184971	10/08/21 16:30	WL8G	ECL 1
Total Recoverable	Analysis	200.8		20			185001	10/08/21 22:16	UFLE	ECL 1
		Instrument ID: ICPMS05								
Total Recoverable	Prep	200.8	RA		50 mL	50 mL	184971	10/08/21 16:30	WL8G	ECL 1
Total Recoverable	Analysis	200.8	RA	20			185531	10/11/21 10:54	UFLE	ECL 1
		Instrument ID: ICPMS05								
Total/NA	Prep	200.8 RP Prep			100 mL	100 mL	184973	10/08/21 16:00	UFLE	ECL 1
Total/NA	Analysis	200.8		1			185531	10/11/21 12:54	UFLE	ECL 1
		Instrument ID: ICPMS05								
Total/NA	Prep	7470A			50 mL	100 mL	184920	10/08/21 16:30	WL8G	ECL 1
Total/NA	Analysis	7470A		1			185605	10/11/21 13:02	VWJ7	ECL 1
		Instrument ID: HG8								

Client Sample ID: BC-1

Lab Sample ID: 570-72281-2

Date Collected: 10/08/21 11:00

Matrix: Seawater

Date Received: 10/08/21 15:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			1061.4 mL	2 mL	184919	10/08/21 18:07	H1SH	ECL 1
Total/NA	Analysis	8270C SIM		1			185249	10/09/21 12:09	N8CZ	ECL 1
		Instrument ID: GCMSEEE								
Total/NA	Prep	3510C			253.1 mL	2.5 mL	185177	10/08/21 16:44	UFLU	ECL 1
Total/NA	Analysis	8015B		1			184951	10/08/21 23:41	UJ3K	ECL 1
		Instrument ID: GC93A								
Total Recoverable	Prep	200.8			50 mL	50 mL	184971	10/08/21 16:30	WL8G	ECL 1
Total Recoverable	Analysis	200.8		20			185001	10/08/21 22:26	UFLE	ECL 1
		Instrument ID: ICPMS05								
Total Recoverable	Prep	200.8	RA		50 mL	50 mL	184971	10/08/21 16:30	WL8G	ECL 1
Total Recoverable	Analysis	200.8	RA	20			185531	10/11/21 10:58	UFLE	ECL 1
		Instrument ID: ICPMS05								
Total/NA	Prep	200.8 RP Prep			100 mL	100 mL	184973	10/08/21 16:00	UFLE	ECL 1
Total/NA	Analysis	200.8		1			185531	10/11/21 13:09	UFLE	ECL 1
		Instrument ID: ICPMS05								
Total/NA	Prep	7470A			50 mL	100 mL	184920	10/08/21 16:30	WL8G	ECL 1
Total/NA	Analysis	7470A		1			185605	10/11/21 13:04	VWJ7	ECL 1
		Instrument ID: HG8								

Lab Chronicle

Client: City of Newport Beach
Project/Site: NB Oil Spill Response

Job ID: 570-72281-1

Client Sample ID: CC-1

Lab Sample ID: 570-72281-3

Date Collected: 10/08/21 11:15

Matrix: Seawater

Date Received: 10/08/21 15:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			1073.6 mL	2 mL	184919	10/08/21 18:07	H1SH	ECL 1
Total/NA	Analysis	8270C SIM		1			185249	10/09/21 12:30	N8CZ	ECL 1
Instrument ID: GCMSEEE										
Total/NA	Prep	3510C			270.6 mL	2.5 mL	185177	10/08/21 16:44	UFLU	ECL 1
Total/NA	Analysis	8015B		1			184951	10/09/21 00:11	UJ3K	ECL 1
Instrument ID: GC93A										
Total Recoverable	Prep	200.8			50 mL	50 mL	184971	10/08/21 16:30	WL8G	ECL 1
Total Recoverable	Analysis	200.8		20			185001	10/08/21 22:29	UFLE	ECL 1
Instrument ID: ICPMS05										
Total Recoverable	Prep	200.8	RA		50 mL	50 mL	184971	10/08/21 16:30	WL8G	ECL 1
Total Recoverable	Analysis	200.8	RA	20			185531	10/11/21 11:00	UFLE	ECL 1
Instrument ID: ICPMS05										
Total/NA	Prep	200.8 RP Prep			100 mL	100 mL	184973	10/08/21 16:00	UFLE	ECL 1
Total/NA	Analysis	200.8		1			185531	10/11/21 13:12	UFLE	ECL 1
Instrument ID: ICPMS05										
Total/NA	Prep	7470A			50 mL	100 mL	184920	10/08/21 16:30	WL8G	ECL 1
Total/NA	Analysis	7470A		1			185605	10/11/21 13:06	VWJ7	ECL 1
Instrument ID: HG8										

Client Sample ID: WD-1

Lab Sample ID: 570-72281-4

Date Collected: 10/08/21 11:50

Matrix: Seawater

Date Received: 10/08/21 15:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			1060.6 mL	2 mL	184919	10/08/21 18:07	H1SH	ECL 1
Total/NA	Analysis	8270C SIM		1			185249	10/09/21 12:52	N8CZ	ECL 1
Instrument ID: GCMSEEE										
Total/NA	Prep	3510C			267.9 mL	2.5 mL	185177	10/08/21 16:44	UFLU	ECL 1
Total/NA	Analysis	8015B		1			184951	10/09/21 00:40	UJ3K	ECL 1
Instrument ID: GC93A										
Total Recoverable	Prep	200.8			50 mL	50 mL	184971	10/08/21 16:30	WL8G	ECL 1
Total Recoverable	Analysis	200.8		20			185001	10/08/21 22:32	UFLE	ECL 1
Instrument ID: ICPMS05										
Total Recoverable	Prep	200.8	RA		50 mL	50 mL	184971	10/08/21 16:30	WL8G	ECL 1
Total Recoverable	Analysis	200.8	RA	20			185531	10/11/21 11:05	UFLE	ECL 1
Instrument ID: ICPMS05										
Total/NA	Prep	200.8 RP Prep			100 mL	100 mL	184973	10/08/21 16:00	UFLE	ECL 1
Total/NA	Analysis	200.8		1			185531	10/11/21 13:15	UFLE	ECL 1
Instrument ID: ICPMS05										
Total/NA	Prep	7470A			50 mL	100 mL	184920	10/08/21 16:30	WL8G	ECL 1
Total/NA	Analysis	7470A		1			185605	10/11/21 13:08	VWJ7	ECL 1
Instrument ID: HG8										

Lab Chronicle

Client: City of Newport Beach
Project/Site: NB Oil Spill Response

Job ID: 570-72281-1

Client Sample ID: BP-1

Lab Sample ID: 570-72281-5

Date Collected: 10/08/21 12:15

Matrix: Seawater

Date Received: 10/08/21 15:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			1070.2 mL	2 mL	184919	10/08/21 18:07	H1SH	ECL 1
Total/NA	Analysis	8270C SIM		1			185249	10/09/21 13:13	N8CZ	ECL 1
		Instrument ID: GCMSEEE								
Total/NA	Prep	3510C			275.8 mL	2.5 mL	185177	10/08/21 16:44	UFLU	ECL 1
Total/NA	Analysis	8015B		1			184951	10/09/21 01:09	UJ3K	ECL 1
		Instrument ID: GC93A								
Total Recoverable	Prep	200.8			50 mL	50 mL	184971	10/08/21 16:30	WL8G	ECL 1
Total Recoverable	Analysis	200.8		20			185001	10/08/21 22:35	UFLE	ECL 1
		Instrument ID: ICPMS05								
Total Recoverable	Prep	200.8	RA		50 mL	50 mL	184971	10/08/21 16:30	WL8G	ECL 1
Total Recoverable	Analysis	200.8	RA	20			185531	10/11/21 11:06	UFLE	ECL 1
		Instrument ID: ICPMS05								
Total/NA	Prep	200.8 RP Prep			100 mL	100 mL	184973	10/08/21 16:00	UFLE	ECL 1
Total/NA	Analysis	200.8		1			185531	10/11/21 13:18	UFLE	ECL 1
		Instrument ID: ICPMS05								
Total/NA	Prep	7470A			50 mL	100 mL	184920	10/08/21 16:30	WL8G	ECL 1
Total/NA	Analysis	7470A		1			185605	10/11/21 13:10	VWJ7	ECL 1
		Instrument ID: HG8								

Client Sample ID: 15-1

Lab Sample ID: 570-72281-6

Date Collected: 10/08/21 12:30

Matrix: Seawater

Date Received: 10/08/21 15:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			1075.2 mL	2 mL	184919	10/08/21 18:07	H1SH	ECL 1
Total/NA	Analysis	8270C SIM		1			185249	10/09/21 13:35	N8CZ	ECL 1
		Instrument ID: GCMSEEE								
Total/NA	Prep	3510C			272.7 mL	2.5 mL	185177	10/08/21 16:44	UFLU	ECL 1
Total/NA	Analysis	8015B		1			184951	10/09/21 01:38	UJ3K	ECL 1
		Instrument ID: GC93A								
Total Recoverable	Prep	200.8			50 mL	50 mL	184971	10/08/21 16:30	WL8G	ECL 1
Total Recoverable	Analysis	200.8		20			185001	10/08/21 22:39	UFLE	ECL 1
		Instrument ID: ICPMS05								
Total Recoverable	Prep	200.8	RA		50 mL	50 mL	184971	10/08/21 16:30	WL8G	ECL 1
Total Recoverable	Analysis	200.8	RA	20			185531	10/11/21 11:08	UFLE	ECL 1
		Instrument ID: ICPMS05								
Total/NA	Prep	200.8 RP Prep			100 mL	100 mL	184973	10/08/21 16:00	UFLE	ECL 1
Total/NA	Analysis	200.8		1			185531	10/11/21 13:21	UFLE	ECL 1
		Instrument ID: ICPMS05								
Total/NA	Prep	7470A			50 mL	100 mL	184920	10/08/21 16:30	WL8G	ECL 1
Total/NA	Analysis	7470A		1			185605	10/11/21 13:12	VWJ7	ECL 1
		Instrument ID: HG8								

Eurofins Calscience LLC

Lab Chronicle

Client: City of Newport Beach
Project/Site: NB Oil Spill Response

Job ID: 570-72281-1

Client Sample ID: 38-1

Date Collected: 10/08/21 13:00

Date Received: 10/08/21 15:22

Lab Sample ID: 570-72281-7

Matrix: Seawater

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			1072.4 mL	2 mL	184919	10/08/21 18:07	H1SH	ECL 1
Total/NA	Analysis	8270C SIM		1			185249	10/09/21 13:56	N8CZ	ECL 1
Instrument ID: GCMSEEE										
Total/NA	Prep	3510C			257.8 mL	2.5 mL	185177	10/08/21 16:44	UFLU	ECL 1
Total/NA	Analysis	8015B		1			184951	10/09/21 02:08	UJ3K	ECL 1
Instrument ID: GC93A										
Total Recoverable	Prep	200.8			50 mL	50 mL	184971	10/08/21 16:30	WL8G	ECL 1
Total Recoverable	Analysis	200.8		20			185001	10/08/21 22:42	UFLE	ECL 1
Instrument ID: ICPMS05										
Total Recoverable	Prep	200.8	RA		50 mL	50 mL	184971	10/08/21 16:30	WL8G	ECL 1
Total Recoverable	Analysis	200.8	RA	20			185531	10/11/21 11:09	UFLE	ECL 1
Instrument ID: ICPMS05										
Total/NA	Prep	200.8 RP Prep			100 mL	100 mL	184973	10/08/21 16:00	UFLE	ECL 1
Total/NA	Analysis	200.8		1			185531	10/11/21 13:24	UFLE	ECL 1
Instrument ID: ICPMS05										
Total/NA	Prep	7470A			50 mL	100 mL	184920	10/08/21 16:30	WL8G	ECL 1
Total/NA	Analysis	7470A		1			185605	10/11/21 13:13	VWJ7	ECL 1
Instrument ID: HG8										

Client Sample ID: 52-1

Date Collected: 10/08/21 13:15

Date Received: 10/08/21 15:22

Lab Sample ID: 570-72281-8

Matrix: Seawater

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			1069 mL	2 mL	184919	10/08/21 18:07	H1SH	ECL 1
Total/NA	Analysis	8270C SIM		1			185249	10/09/21 14:18	N8CZ	ECL 1
Instrument ID: GCMSEEE										
Total/NA	Prep	3510C			272.9 mL	2.5 mL	185177	10/08/21 16:44	UFLU	ECL 1
Total/NA	Analysis	8015B		1			184951	10/09/21 02:36	UJ3K	ECL 1
Instrument ID: GC93A										
Total Recoverable	Prep	200.8			50 mL	50 mL	184971	10/08/21 16:30	WL8G	ECL 1
Total Recoverable	Analysis	200.8		20			185001	10/08/21 22:45	UFLE	ECL 1
Instrument ID: ICPMS05										
Total Recoverable	Prep	200.8	RA		50 mL	50 mL	184971	10/08/21 16:30	WL8G	ECL 1
Total Recoverable	Analysis	200.8	RA	20			185531	10/11/21 11:11	UFLE	ECL 1
Instrument ID: ICPMS05										
Total/NA	Prep	200.8 RP Prep			100 mL	100 mL	184973	10/08/21 16:00	UFLE	ECL 1
Total/NA	Analysis	200.8		1			185531	10/11/21 13:27	UFLE	ECL 1
Instrument ID: ICPMS05										
Total/NA	Prep	7470A			50 mL	100 mL	184920	10/08/21 16:30	WL8G	ECL 1
Total/NA	Analysis	7470A		1			185605	10/11/21 13:15	VWJ7	ECL 1
Instrument ID: HG8										

Eurofins Calscience LLC

Lab Chronicle

Client: City of Newport Beach
Project/Site: NB Oil Spill Response

Job ID: 570-72281-1

Client Sample ID: OR-1

Date Collected: 10/08/21 13:25

Date Received: 10/08/21 15:22

Lab Sample ID: 570-72281-9

Matrix: Seawater

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			1072.9 mL	2 mL	184919	10/08/21 18:07	H1SH	ECL 1
Total/NA	Analysis	8270C SIM		1			185249	10/09/21 14:39	N8CZ	ECL 1
Instrument ID: GCMSEEE										
Total/NA	Prep	3510C			274.3 mL	2.5 mL	185177	10/08/21 16:44	UFLU	ECL 1
Total/NA	Analysis	8015B		1			184951	10/09/21 03:06	UJ3K	ECL 1
Instrument ID: GC93A										
Total Recoverable	Prep	200.8			50 mL	50 mL	184971	10/08/21 16:30	WL8G	ECL 1
Total Recoverable	Analysis	200.8		20			185001	10/08/21 22:58	UFLE	ECL 1
Instrument ID: ICPMS05										
Total/NA	Prep	200.8 RP Prep			100 mL	100 mL	184973	10/08/21 16:00	UFLE	ECL 1
Total/NA	Analysis	200.8		1			185531	10/11/21 13:30	UFLE	ECL 1
Instrument ID: ICPMS05										
Total/NA	Prep	7470A			50 mL	100 mL	184920	10/08/21 16:30	WL8G	ECL 1
Total/NA	Analysis	7470A		1			185605	10/11/21 13:17	VWJ7	ECL 1
Instrument ID: HG8										

Client Sample ID: SAR-1

Date Collected: 10/08/21 13:35

Date Received: 10/08/21 15:22

Lab Sample ID: 570-72281-10

Matrix: Seawater

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			1073.7 mL	2 mL	184919	10/08/21 18:07	H1SH	ECL 1
Total/NA	Analysis	8270C SIM		1			185249	10/09/21 15:01	N8CZ	ECL 1
Instrument ID: GCMSEEE										
Total/NA	Prep	3510C			269.8 mL	2.5 mL	185177	10/08/21 16:44	UFLU	ECL 1
Total/NA	Analysis	8015B		1			184951	10/09/21 03:35	UJ3K	ECL 1
Instrument ID: GC93A										
Total Recoverable	Prep	200.8			50 mL	50 mL	184971	10/08/21 16:30	WL8G	ECL 1
Total Recoverable	Analysis	200.8		20			185001	10/08/21 23:01	UFLE	ECL 1
Instrument ID: ICPMS05										
Total/NA	Prep	200.8 RP Prep			100 mL	100 mL	184973	10/08/21 16:00	UFLE	ECL 1
Total/NA	Analysis	200.8		1			185531	10/11/21 13:33	UFLE	ECL 1
Instrument ID: ICPMS05										
Total/NA	Prep	7470A			50 mL	100 mL	184920	10/08/21 16:30	WL8G	ECL 1
Total/NA	Analysis	7470A		1			185605	10/11/21 13:19	VWJ7	ECL 1
Instrument ID: HG8										

Laboratory References:

ECL 1 = Eurofins Calscience LLC Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494

Eurofins Calscience LLC

Accreditation/Certification Summary

Client: City of Newport Beach
Project/Site: NB Oil Spill Response

Job ID: 570-72281-1

Laboratory: Eurofins Calscience LLC

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
California	State	2944	09-30-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
200.8	200.8	Seawater	Antimony
200.8	200.8	Seawater	Barium
200.8	200.8	Seawater	Beryllium
200.8	200.8	Seawater	Vanadium
200.8	200.8 RP Prep	Seawater	Arsenic
200.8	200.8 RP Prep	Seawater	Cadmium
200.8	200.8 RP Prep	Seawater	Chromium
200.8	200.8 RP Prep	Seawater	Copper
200.8	200.8 RP Prep	Seawater	Lead
200.8	200.8 RP Prep	Seawater	Nickel
200.8	200.8 RP Prep	Seawater	Selenium
200.8	200.8 RP Prep	Seawater	Silver
200.8	200.8 RP Prep	Seawater	Thallium
200.8	200.8 RP Prep	Seawater	Zinc

Method Summary

Client: City of Newport Beach
Project/Site: NB Oil Spill Response

Job ID: 570-72281-1

Method	Method Description	Protocol	Laboratory
8270C SIM	PAHs (GC/MS SIM)	SW846	ECL 1
8015B	Diesel Range Organics (DRO) (GC)	SW846	ECL 1
200.8	Metals (ICP/MS)	EPA	ECL 1
7470A	Mercury (CVAA)	SW846	ECL 1
200.8	Preparation, Total Recoverable Metals	EPA	ECL 1
200.8 RP Prep	Preparation, Reductive Precipitation	Analytica Chimica	ECL 1
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	ECL 1
7470A	Preparation, Mercury	SW846	ECL 1

Protocol References:

Analytica Chimica = Analytica Chimica Acta, 207 (1988)

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ECL 1 = Eurofins Calscience LLC Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494

Sample Summary

Client: City of Newport Beach
Project/Site: NB Oil Spill Response

Job ID: 570-72281-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
570-72281-1	LC-1	Seawater	10/08/21 10:30	10/08/21 15:22
570-72281-2	BC-1	Seawater	10/08/21 11:00	10/08/21 15:22
570-72281-3	CC-1	Seawater	10/08/21 11:15	10/08/21 15:22
570-72281-4	WD-1	Seawater	10/08/21 11:50	10/08/21 15:22
570-72281-5	BP-1	Seawater	10/08/21 12:15	10/08/21 15:22
570-72281-6	15-1	Seawater	10/08/21 12:30	10/08/21 15:22
570-72281-7	38-1	Seawater	10/08/21 13:00	10/08/21 15:22
570-72281-8	52-1	Seawater	10/08/21 13:15	10/08/21 15:22
570-72281-9	OR-1	Seawater	10/08/21 13:25	10/08/21 15:22
570-72281-10	SAR-1	Seawater	10/08/21 13:35	10/08/21 15:22



1516

Environment Testing
Calscience

CHAIN OF CUSTODY RECORD

Special Handling:

- ☐ Standard TAT - 7 to 10 business days
☒ Rush TAT - Date Needed 10/11

All TATs subject to laboratory approval
Min. 24-hr notification needed for rushes
Samples disposed after 30 days unless otherwise instructed.

Page 1 of 1

Report To: City of Newport
Beach Public Works

Telephone # 949-644-3311
Project Mgr. John Kappeler

Invoice To: 100 Civic Center Dr.
Newport Beach, CA
92660

Project No. NB 0.1 Spill Response
Site Name John Kappeler / Garrett Coker
Location State
Sampler(s) State

P.O. No. Quote #

F=Field Filtered 1=Na₂SO₃ 2=HCl 3=H₂SO₄ 4=HNO₃ 5=NaOH 6=Ascorbic Acid
7=CH₃OH 8=NaHSO₄ 9=Deionized Water 10=H₃PO₄ 11= 12=

DW=Drinking Water GW=Groundwater SW=Surface Water WW=Waste Water
O=Oil SO=Soil SL=Sludge A=Indoor/Ambient Air SG=Soil Gas

X1= X2= X3=

Lab ID	Sample ID	Date	Time	Type	Containers			Matrix	Analysis			Check if chlorinated	QA/QC Reporting Notes: * additional charges may apply
					# of Amber Glass	# of Clear Glass	# of Plastic		MADEMP/CPCAM Report?	CTDPH RCP Report?	MADEMP/CPCAM Report?		
1	LC-1	10/08/21	1030	W	3	1	1	W	X	X	X	X	X
2	BC-1	10/08/21	1100	W	1	1	1	W	X	X	X	X	X
3	CC-1	10/08/21	1115	W	1	1	1	W	X	X	X	X	X
4	WD-1	10/08/21	1150	W	1	1	1	W	X	X	X	X	X
5	BP-1	10/08/21	1215	W	1	1	1	W	X	X	X	X	X
6	15-1	10/08/21	1230	W	1	1	1	W	X	X	X	X	X
7	33-1	10/08/21	1300	W	1	1	1	W	X	X	X	X	X
8	52-1	10/08/21	1315	W	1	1	1	W	X	X	X	X	X
9	OR-1	10/08/21	1325	W	1	1	1	W	X	X	X	X	X
10	5AR-1	10/08/21	1335	W	1	1	1	W	X	X	X	X	X

Relinquished by: Garrett Coker Received by: Plaus

Date: 10/08/2021 Time: 1522

Temp °C: EDD format: ☐ E-mail to:

Condition upon receipt: ☐ Ambient ☐ Feed ☐ Refrigerated ☐ DI VOA Frozen ☐ Soil Jar Frozen

Custody Seals: ☐ Present ☐ Intact ☐ Broken

2.9/7.8 3.2/4.1 3.0/3.9 505

Sample Shipping Address: 17461 Derian Ave Suite 100 * Irvine, CA 92614 • 949-261-1022
Lab Address: 17461 Derian Ave Suite 100 * Irvine, CA 92614 • 949-261-1022
www.EurofinsUS.com/Spectrum

Login Sample Receipt Checklist

Client: City of Newport Beach

Job Number: 570-72281-1

Login Number: 72281

List Source: Eurofins Calscience LLC

List Number: 1

Creator: Ramos, Maribel

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ ($1/4''$).	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	