



Malibu Civic Center Wastewater Treatment Facility

Fourth Quarter 2019 Long-Term Groundwater and
Surface Water Monitoring Report

prepared by
Rincon Consultants, Inc.

January 30, 2020



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January 30, 2020
Project No: 15-01587

Yolanda Bundy
Environmental Sustainability Department Director
Building Official
City of Malibu
23825 Stuart Ranch Road
Malibu, California 90401

Subject: Fourth Quarter 2019 Long-Term Groundwater and Surface Water Monitoring Report, Malibu Civic Center Wastewater Treatment Facility – City of Malibu, California

Dear Ms. Bundy:

Rincon Consultants, Inc. has prepared the Fourth Quarter 2019 Long-Term Groundwater and Surface Water Monitoring Report for the Malibu Civic Center Wastewater Treatment Facility (CCWTF) located in Malibu, California. The CCWTF began discharging treated wastewater in the third quarter of 2018. Therefore, Long-Term Monitoring of Groundwater and Surface Water Quality Monitoring (Task II) was triggered and quarterly groundwater monitoring was initiated.

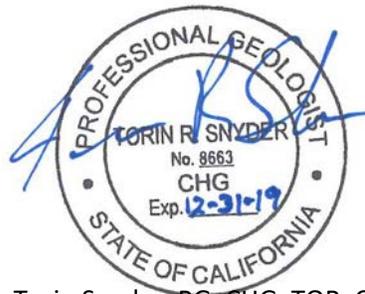
The objective of the work program is to implement and manage a basin-wide groundwater and surface water monitoring and reporting program. The monitoring program has been designed to identify potential impacts due to land disposal of treated wastewater via injection and landscape irrigation or percolation on the receiving water quality of the local groundwater aquifers, Santa Monica Bay, Malibu Creek, and Malibu Lagoon.

Please contact us with any questions you may have regarding the results of the Fourth Quarter 2019 Long-Term Groundwater and Surface Water Monitoring Report.

Sincerely,
Rincon Consultants, Inc.

A handwritten signature in black ink, appearing to read "KB".

Kiernan Btralik, CPSWQ, QSP/D
Environmental Scientist



Torin Snyder, PG, CHG, TOR, QSD/P
Principal



Fourth Quarter 2019 Long-Term Groundwater and Surface Water Monitoring Report
Malibu Civic Center Wastewater Treatment Facility, Malibu, California

"I certify under penalty of law that this document, including all attachments and supplemental information, was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of a fine and imprisonment."

Executed on the 30 day of January at 2020

A handwritten signature in cursive script that reads "Yolanda Bundy".

Signature

Environmental Sustainability Director

Title

Table of Contents

1	Introduction	3
2	Background	3
3	Geologic and Hydrogeologic Setting.....	5
3.1	Hydrology	5
3.2	Geology	5
3.3	Hydrogeology	5
4	Activities Completed During the Fourth Quarter of 2019	6
5	Groundwater Elevations and Gradients	6
5.1	Shallow Zone	6
5.2	Deep Zone	7
5.3	Winter Canyon	7
6	Water Quality Sampling Analysis.....	7
6.1	Surface Water	7
6.1.1	Sampling Methodology.....	7
6.1.2	Laboratory Analyses	8
6.2	Groundwater.....	9
6.2.1	Sampling Methodology.....	9
6.2.2	Laboratory Analyses	9
6.3	Analytical Laboratory QA/QC.....	10
7	Scheduled Activities for the First Quarter of 2020	10
8	Summary of Monitoring Activities	11
8.1	Groundwater Elevations	11
8.2	Surface Water Quality.....	11
8.3	Groundwater Quality	11
9	Limitations	12
10	References	13

Tables

Table 1	Groundwater Elevations
Table 2	Long-Term Groundwater and Surface Water Analytical Matrix
Table 3	Surface Water Analytical Results
Table 4	Groundwater Analytical Results

Figures

- Figure 1 Vicinity Map
- Figure 2 Site Map – Civic Center Area
- Figure 3 Shallow Groundwater Elevations October 2019
- Figure 4 Shallow Groundwater Elevations November 2019
- Figure 5 Shallow Groundwater Elevations December 2019
- Figure 6 The Nitrogen Cycle

Appendices

- Appendix A Groundwater and Surface Water Field Sheets
- Appendix B Laboratory Analytical Reports



1 Introduction

This report presents the results of Fourth Quarter 2019 long-term groundwater and surface water monitoring activities for the Malibu Civic Center Wastewater Treatment Facility (CCWTF) located in the City of Malibu, California (Figure 1). The CCWTF began discharging treated wastewater in the third quarter of 2018. Therefore, Long-Term Monitoring of Groundwater and Surface Water Quality Monitoring (Task II) was triggered and quarterly groundwater monitoring was conducted. The objective of the work program is to implement and manage a basin-wide groundwater and surface water monitoring and reporting program. The monitoring program has been designed to identify potential impacts because of land disposal of treated wastewater via injection and landscape irrigation or percolation on the receiving water quality of the local groundwater aquifers, Santa Monica Bay, Malibu Creek, and Malibu Lagoon.

This report was prepared by Rincon Consultants, Inc. (Rincon) and presents the geologic and hydrogeologic setting, groundwater elevations and gradient, surface water and groundwater sampling methodologies, and water quality data results.

2 Background

On-site wastewater disposal systems (OWDS) have allegedly contributed to the non-point source pollution of Malibu Creek and Lagoon located in the Civic Center Area of the City of Malibu (Figure 2). The City of Malibu has designed and constructed a new wastewater treatment facility to comply with regulatory actions taken by the Los Angeles Regional Water Quality Control Board (LARWQCB) and the State Water Resources Control Board (SWRCB) to prohibit discharges from OWDS in the Civic Center area.

To establish baseline groundwater and surface water quality conditions prior to operation and discharge of treated wastewater, the LARWQCB required basin-wide, baseline groundwater and surface water monitoring. The water quality monitoring program was driven by several factors:

- Timelines established through regulatory action
- Proposed programs to fulfill anticipated future regulatory requirements associated with the development of the CCWTF
- The distribution of Title 22 Recycled Water in the Prohibition area
- Protection of the Malibu Valley Groundwater Basin, Malibu Creek, Malibu Lagoon, and the near shore environment of Santa Monica Bay

Following activation of the CCWTF operations, baseline monitoring activities (Task I) were completed and long-term monitoring activities (Task II) were triggered. The objective of long-term monitoring is to identify impacts that land disposal of recycled water, via injection and landscape irrigation or percolation, may have on the water quality of the receiving groundwater aquifers, Santa Monica Bay, Malibu Creek, and Malibu Lagoon.

The basin-wide long-term monitoring program consists of four of the original five water quality monitoring tasks that occur in the Civic Center area of the City of Malibu. All five monitoring tasks were designed to provide a comprehensive basin-wide groundwater and surface water monitoring program. Below is a general description of each task.

Task I – Baseline Groundwater and Surface Water Quality Monitoring of the Civic Center Area (Completed)

The baseline groundwater and surface water quality monitoring task involved monitoring groundwater in nine (9) shallow and deep groundwater wells and monitoring surface water quality at ten (10) locations. The objective of this task was to develop baseline, ambient shallow and deep groundwater, and surface water conditions prior to the implementation of the CCWTF, as required by the Monitoring and Reporting Program (MRP) No. CI 10042, issued by the LARWQCB (LARWQCB 2015).

Task II – Long-Term Monitoring of Groundwater and Surface Water Quality Monitoring of the Civic Center Area

The long-term groundwater and surface water quality monitoring task involves monitoring groundwater in nine (9) shallow and deep groundwater wells and monitoring surface water quality at ten (10) locations. The objective of long-term monitoring is to identify impacts, if any, that land disposal of recycled water, via injection and landscape irrigation or percolation, have on the water quality of the receiving groundwater aquifers, Santa Monica Bay, Malibu Creek, and Malibu Lagoon and to comply with the project-specific Waste Discharge Requirement (WDR). The mix of shallow and deeper monitoring wells were chosen to provide adequate spatial and vertical coverage of the basin near the CCWTF injection to monitor for potential adverse impacts. The nine (9) groundwater monitoring wells and ten (10) surface water sampling locations identified in Task II are sampled on a quarterly basis after CCWTF operations commence. This sampling is required by the MRP No. CI 10042, issued by the LARWQCB (LARWQCB 2015).

Task III – Salt and Nutrient Management Plan Monitoring Program

The Salt and Nutrient Management Plan (SNMP) monitoring program branches from the baseline and long-term groundwater and surface water monitoring programs described above (Tasks I and II). Task III involves performing semi-annual groundwater monitoring at sixteen (16) groundwater monitoring wells (mix of shallow and deep) located in the Civic Center area of the City and in a small area in unincorporated Los Angeles County. The objective of the SNMP is to monitor potential impacts that recycled water, introduced through irrigation and injection, may have on the Malibu Groundwater Basin. The SNMP also provides data to assess the various phases of the CCWTF implementation during the time that the collection system and treatment plant connections increase, and as OWDS-related discharges cease (RMC Water 2015a).

Task IV – Memorandum of Understanding Compliance Monitoring

Compliance with the Memorandum of Understanding (MOU) the City has with the LARWQCB corresponds with baseline and long-term groundwater and surface water monitoring programs described in Tasks I through III above. Task IV involves performing semi-annual monitoring at fourteen (14) groundwater wells located in the City's Civic Center area. The objective of the MOU is

to monitor for potential impacts to the Shallow Alluvium because of CCTWF implementation (LARWQCB 2014).

Task V – Civic Center Groundwater Elevation Monitoring Program

The groundwater elevation monitoring program assesses the groundwater elevations in the Malibu Groundwater Basin and in Winter Canyon. The objective of this task is to provide an understanding of the groundwater elevation conditions in the Civic Center Area, including elevation trends related to precipitation, tidal, and lagoon influences (LARWQCB 2015).

3 Geologic and Hydrogeologic Setting

3.1 Hydrology

The project is in the Los Angeles hydrologic region, as defined by the LARWQCB. The Los Angeles hydrologic region encompasses all coastal drainages flowing to the Pacific Ocean between Rincon Point and the eastern Los Angeles County line. The study area covers the Malibu Creek and Winter Canyon Creek watersheds. Most of the study area addressed in this report is located within the 109-square-mile Malibu Creek watershed, which is the second largest watershed draining to the Santa Monica Bay. The Malibu Creek watershed contains mostly undeveloped mountain areas, residential properties, and natural streams (LARWQCB 2011). Malibu Lagoon, a 13-acre brackish estuary, is located at the terminus of the Malibu Creek watershed and is one of only two remaining coastal marshes in Los Angeles County.

3.2 Geology

The study area is located within the Santa Monica Mountains in the northwestern corner of the Los Angeles basin. The study area lies at the juncture of the Peninsular Ranges geomorphic province, consisting of a northwest-oriented structural grain, and the Transverse Ranges geomorphic province, which features a predominantly east-west-oriented structural grain.

The 45-mile-long Santa Monica Mountains range is part of the southernmost portion of the western Transverse Ranges province. It forms an east-west range of low mountains along the southern California Coast from the Oxnard Plain to Los Angeles. The Santa Monica Mountain range is characterized by long, south-draining canyons on its south flank and short, north-draining canyons on its north flank. The Malibu Canyon and Winter Canyon are two canyons in the study area that drain south.

3.3 Hydrogeology

The Malibu Valley Groundwater Basin (DWR groundwater basin no. 4-22) is a 613-acre alluvial basin. The groundwater basin is bounded by the Pacific Ocean to the south and the Santa Monica Mountains to the north, east, and west. The basin is composed of non-water-bearing Tertiary age rocks.

Water bearing geologic formations in the Malibu Valley Groundwater Basin include Holocene alluvium, consisting of clays, silts, sands, and gravels overlying impermeable bedrock. The unconsolidated alluvium in the Civic Center area by Malibu Creek and other small drainages is estimated to range in thickness from a thin layer near the valley walls to about 175 feet in the central part of the main body of the alluvium.

The alluvium can be subdivided into three categories or zones: 1) a shallow zone of permeable alluvial sediments, 2) underlain by a sequence of fine-grained estuarine deposits, and 3) an underlying coarse-grained stratum commonly referred to as the “Civic Center Gravels” (GeoSoils 1989, Leighton 1994, ECI 200, Ambrose and Orme 2000, Fugro West, Inc. 2005, Geosyntec Consultants 2007). Depth to groundwater in the alluvium is typically 5 to 13 feet below grade and is deeper in the upland canyon areas.

4 Activities Completed During the Fourth Quarter of 2019

The following activities were completed during the fourth quarter 2019:

- Rincon measured depth to water in groundwater elevation monitoring wells on October 10, November 4, and December 19, 2019.
- Rincon collected and analyzed groundwater samples for WDR/MRP compliance on November 5, 6, and 7, 2019.
- Rincon collected and analyzed surface water samples for WDR/MRP compliance on November 6, 2019.

5 Groundwater Elevations and Gradients

Rincon mobilized to 46 groundwater monitoring wells to measure the depth to water using an electronic water level indicator (see Table 1 and Appendix A). Of the 46 groundwater monitoring wells, two of the wells were unable to be located (MBCMW-5 and MBCMW-6), one well was reported to be buried (GH9-M4), and one was reported dry (SMBRP-15B). Therefore, groundwater elevations could not be calculated in these groundwater monitoring wells.

5.1 Shallow Zone

The groundwater elevations for the shallow zone groundwater elevation monitoring locations ranged from 3.02 feet above mean sea level (amsl) at well MCWP-MW10 to 22.46 feet amsl at SMBRP-8 (ECI-RC-MW01) over the fourth quarter 2019 (Table 1). Of the groundwater elevations measured, twenty-two wells decreased, and nine wells increased from October to December 2019, with an overall average decrease of 0.69 feet.

Groundwater elevation changes at individual wells ranged from decreasing by 2.66 feet amsl in well SMBRP-2, to increasing by 1.63 feet amsl in well SMBRP-6 over the fourth quarter 2019. The predominant direction of groundwater flow was south-southeast. Elevation data and flow direction are displayed in Figures 3, 4, and 5.

The shallow groundwater gradient was 0.0045 feet/foot, 0.0044 feet/foot, and 0.0041 feet/foot (calculated using groundwater monitoring wells SMBRP-2, SMBRP-9, and SMBRP-12) for October, November, and December 2019 respectively.

5.2 Deep Zone

The groundwater elevations for the deep zone groundwater monitoring locations ranged from 5.56 feet amsl in MCWP-MW07D to 10.55 feet amsl in MCWP-MW09 over the fourth quarter 2019 (Table 1). Groundwater elevations decreased in all eight wells over the fourth quarter 2019, with an average decrease of 0.56 feet amsl. Groundwater elevation decreases ranged from 1.87 feet in well MCWP-MW02, to 0.03 feet in well MCWP-MW03.

5.3 Winter Canyon

The groundwater elevations for the Winter Canyon groundwater monitoring locations ranged from 9.76 feet amsl at SMBRP-11 to 53.45 feet amsl in LAMW-5S over the fourth quarter 2019 (Table 1). Both monitoring locations showed a decrease in groundwater elevations over the fourth quarter. The elevation at well SMBRP-11 decreased by 0.03 feet, and at well LAMW-5S the elevation decreased by 1.76 feet.

6 Water Quality Sampling Analysis

The surface water and groundwater samples were transported under chain-of-custody documentation to Enthalpy Analytical (Enthalpy), a California-accredited laboratory located in Orange, California. Surface water and groundwater monitoring locations and corresponding laboratory analyses are shown in the Groundwater and Surface Water Analytical Matrix (Table 2). The laboratory analytical results for the fourth quarter 2019 monitoring event are provided in Table 3 and Table 4. Analytical laboratory reports are included as Appendix B of this report.

6.1 Surface Water

6.1.1 Sampling Methodology

A total of 10 surface water samples were collected on November 6, 2019. Four ocean water samples were collected from the Near Shore sampling locations (N-001 through N-004) and six surface water samples were collected from the Malibu Lagoon and Creek (L-001 through L-006). The Near Shore ocean water samples were collected from each location at a depth of approximately 3-6 inches (ankle deep). Surface water samples from Malibu Lagoon and Creek monitoring locations were collected from each location at a depth of approximately 12 inches below the surface of the water.

All surface water samples were collected up-current of sampling personnel to minimize potential contamination of surface water samples with bacteria originating from field personnel. Surface water samples were collected directly into lab-supplied containers when possible, or into a field sampling container and then transferred into preserved and non-preserved containers supplied by Enthalpy. The containers were capped, labeled, placed in Ziploc bags, and stored on ice in a cooler and delivered via courier to Enthalpy under chain-of-custody documentation.

6.1.2 Laboratory Analyses

Total Coliform

Total coliform concentrations in the Near Shore surface water samples ranged from 2,000 to greater than 2,400 with an average concentration of 2,100 Most Probable Number per 100 milliliters (MPN/100 mL)¹. Five of the six Malibu Lagoon and Creek surface water samples were reported above the upper RDL, and one sample was not detected above the reporting detection limit (RDL). The average total coliform concentration across all surface water samples was 2,040 MPN/100 mL.

Fecal Coliform

Fecal coliform was detected in one of four Near Shore surface water samples with a concentration of 32 MPN/100 mL. Fecal coliform was detected above the RDL in five of six Malibu Lagoon and Creek surface water samples. Detected concentrations ranged from 100 to 650 MPN/100 mL. Average fecal coliform concentration of Malibu Lagoon and Creek samples was 310 MPN/100 mL, and 189.4 MPN/100 mL across all surface water samples (lagoon and ocean).

Nitrogen

Nitrate as Nitrogen

Nitrate as nitrogen was not detected above the RDL in nine of ten surface water samples, and the only detected value was 0.13 milligrams per liter (mg/L) at L-002.

Other Forms of Nitrogen

Nitrite as nitrogen was not detected above the RDL in the surface water samples.

Organic nitrogen was detected above the RDL in two of the four Near Shore samples locations, with concentrations of 0.06 mg/L and 0.12 mg/L. Organic nitrogen was detected in all Malibu Lagoon and Creek samples, ranging from 0.50 mg/L to 1.22 mg/L with an average of 0.82 mg/L. The average total organic nitrogen across all surface water samples was 0.52 mg/L.

Ammonia (NH₃⁺) is the primary form of nitrogen in OWDS effluent, and it is converted to nitrate during the leaching process through the vadose zone (Figure 6). Ammonia was not detected above the RDL of 0.01 mg/L in any surface water samples.

Total Kjeldahl Nitrogen (TKN) was detected above the RDL of 0.052 mg/L in two of the four Near Shore sampling locations with concentrations of 0.056 and 0.12 mg/L. TKN was detected in all six

¹ Note that throughout this report, averages are calculated using the upper detection limit value for results that exceeded the upper detection limit and half of the Reporting Detection Limit for results that were not detected.

Malibu Lagoon and Creek sampling locations, ranging from 0.5 mg/L to 1.2 mg/L with an average of 0.82 mg/L. The average TKN across all surface water samples was 0.52 mg/L.

Total Phosphorous

Total phosphorus was detected in all surface water samples. Near Shore samples ranged from 0.02 mg/L to 0.07 mg/L with an average of 0.04 mg/L. Total phosphorus in Malibu Lagoon and Creek sampling locations ranged from 0.10 mg/L to 0.22 mg/L with an average concentration of 0.13 mg/L. The average phosphorous concentration across all surface water samples was 0.10 mg/L.

6.2 Groundwater

6.2.1 Sampling Methodology

A total of nine groundwater monitoring wells were sampled during the fourth quarter 2019 in accordance with the WDR and MOU monitoring requirements (Task II and IV). Prior to sampling, a minimum of three casing volumes were purged from each well using a submersible pump or by hand bailing. Purging stopped when consecutive water quality measurements (temperature, electrical conductivity, and pH) varied by less than 10% or until the well purged dry, whichever occurred first. Field equipment was decontaminated between each well. Purged groundwater and decontamination water were stored in a 500-gallon high-density polyethylene tank during field activities, and properly disposed at the CCWTF.

Once each well was purged, groundwater samples were collected using preserved and non-preserved containers supplied by Enthelphy. The containers were capped, labeled, placed in Ziploc bags, and stored on ice in coolers pending delivery to Enthelphy. Field data are included in Appendix A.

6.2.2 Laboratory Analyses

Total Coliform

Total coliform was detected in eight of the nine monitoring well samples. Detected total coliform concentrations ranged from 19 to 2,000 MPN/100 mL, with an average of 464 MPN/100 mL (see Table 4).

Fecal Coliform

Fecal coliform was detected in two groundwater samples; 2.0 MPN/100 mL at LAMW-5S and 6.3 MPN/100 mL at SMBRP-9.

Nitrogen

Nitrate as Nitrogen

Nitrate as nitrogen was detected in eight of nine groundwater monitoring well samples. Detected concentrations ranged from 0.18 mg/L to 5.03 mg/L with an average concentration of 2.01 mg/L.

Other forms of Nitrogen

Nitrite as nitrogen was not detected in any groundwater samples.

Organic nitrogen was detected in seven of the nine groundwater samples, with detected concentrations ranging from 0.66 mg/L to 34.60 mg/L, and an average of 4.79 mg/L.

Ammonia as nitrogen was detected in five of the nine groundwater samples, with detected values ranging from 0.15 mg/L to 5.35 mg/L, and an average concentration of 0.92 mg/L.

TKN was detected in eight of the nine groundwater samples. Detected concentrations ranged from 0.16 mg/L to 40 mg/L with an average of 5.55 mg/L.

Total Phosphorous

Total phosphorous was detected in all the nine groundwater monitoring wells. Concentrations ranged from 0.03 mg/L to 1.84 mg/L with an average of 0.47 mg/L.

Total Dissolved Solids

Total Dissolved Solids (TDS) were detected in all nine groundwater monitoring wells. Concentrations ranged from 308 mg/L to 5,050 mg/L with an average of 1,537 mg/L.

6.3 Analytical Laboratory QA/QC

Enthalpy performed quality assurance/quality control (QA/QC) measures including the recovery of surrogates. Enthalpy followed all QA/QC procedures per method requirements. The notes column of the analytical reports also has the QC flags. Any issues that are not covered by the qualifier flags (definitions page found below the analytical tables), are addressed as part of the case narrative. Any exceedances are indicated in the Case Narrative of the analytical laboratory report.

7 Scheduled Activities for the First Quarter of 2020

The following activities will be completed during the first quarter of 2020:

- Prepare and submit the Fourth Quarter 2019 Long-Term Groundwater and Surface Water Monitoring to the LARWQCB.
- Collect and analyze groundwater and surface water samples for WDR/MRP compliance (Task II)
- Measure depth to water in the groundwater monitoring wells in January, February, and March 2020 (Task V).

8 Summary of Monitoring Activities

8.1 Groundwater Elevations

Consistent with past observations, shallow groundwater generally flows south-southeast. Groundwater elevations decreased in 74 percent of shallow, deep, and Winter Canyon wells, with an average change of -0.67 feet. The only groundwater elevation increases were observed in shallow groundwater wells, where increases ranged from 0.06 to 1.63 feet. All eight deep and two Winter Canyon monitoring well elevations decreased between October 2019 and December 2019.

8.2 Surface Water Quality

Total coliform samples were at or above 2,000 MPN/100 mL in nine of the ten samples. Near Shore samples showed an overall decrease of total coliform compared to third quarter 2019. At the Malibu Lagoon and Creek locations, all but one sample exceeded the upper RDL, compared to the third quarter 2019, where all samples exceeded the upper RDL.

Fecal coliform concentrations averaged 189.4 MPN/100 mL across all Near Shore surface water samples, which represents an average increase of 1.6 MPN/100 mL from the third quarter 2019. In Malibu Lagoon and Creek locations, five of six samples had detected concentrations of fecal coliform, averaging 310.1 MPN/100 mL, which represents an average increase of 35.9 MPN/100 mL from the third quarter 2019.

Nitrate was not detected above the RDL in nine of the 10 surface water samples, which is consistent with the third quarter 2019 results where no samples had detected concentrations of nitrate. This was the case for nitrite as well, where no samples had detected concentrations above the RDL for the third or fourth quarter 2019. Organic nitrogen averaged 0.055 mg/L in Near Shore samples and 0.82 mg/L in Malibu Lagoon and Creek samples. When compared to third quarter 2019 this represents an average increase in organic nitrogen of 0.03 and 0.44 mg/L for Near Shore and Malibu Lagoon and Creek samples, respectively.

Phosphorous decreased compared to the third quarter 2019 results, with an average concentration of 0.18 mg/L.

8.3 Groundwater Quality

When comparing third to fourth quarter analytical results, note that sixteen groundwater monitoring wells were sampled during the third quarter monitoring event, and only nine wells were sampled for the fourth quarter. Of the nine wells sampled between the third and fourth quarter, total coliform decreased in three monitoring wells and increased in six monitoring wells, with an average increase of 179.6 MPN/100 mL compared to third quarter 2019. Fecal coliform increased in two wells, decreased in two wells, and remained below the RDL in five wells when compared to third quarter 2019.

Nitrate as nitrogen was detected in eight of nine groundwater monitoring wells. When comparing analytical results from the fourth quarter 2019 to the same nine wells sampled during the third

quarter 2019, nitrate concentrations increased in five wells, decreased in three wells, and remained the same at one well.

Average TDS concentrations in groundwater samples decreased from an average of 1,941 to 1,537 mg/L from third to fourth quarter 2019.

9 Limitations

This report has been prepared for and is intended for the exclusive use of the City of Malibu. The contents of this report should not be relied upon by any other party without the written consent of Rincon Consultants, Inc.

Our conclusions regarding the site are based on observations of existing site conditions, our interpretation of site usage information, and the results of a limited subsurface sampling and chemical testing program. The concentrations of contaminants measured at any given location may not be representative of conditions at other locations intermediate to the locations sampled. Furthermore, conditions may change at any location as a function of time in response to natural conditions, chemical reactions, and other events. Conclusions regarding the condition of the site do not represent a warranty that all areas within the site are like those sampled.

10 References

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Tables

Shallow Groundwater Monitoring Wells				
Well ID	Date	TOC Elevation (ft)	Depth to Water (ft bTOC)	Groundwater Elevation
C-1	10/10/2019	11.47	5.19	6.28
C-1	11/4/2019	11.47	5.35	6.12
C-1	12/19/2019	11.47	7.04	4.43
C-2	10/10/2019	11.19	5.11	6.08
C-2	11/4/2019	11.19	5.25	5.94
C-2	12/19/2019	11.19	7.1	4.09
CCPE	10/10/2019	12.94	5.74	7.20
CCPE	11/4/2019	12.94	5.81	7.13
CCPE	12/19/2019	12.94	8.35	4.59
CCPNE	10/10/2019	13.68	6.40	7.28
CCPNE	11/4/2019	13.68	6.50	7.18
CCPNE	12/19/2019	13.68	8.67	5.01
CCPSW	10/10/2019	13.67	6.29	7.38
CCPSW	11/4/2019	13.67	6.35	7.32
CCPSW	12/19/2019	13.67	8.23	5.44
CCW-4	10/10/2019	15.77	5.69	10.08
CCW-4	11/4/2019	15.77	5.94	9.83
CCW-4	12/19/2019	15.77	5.32	10.45
GH6-M1	10/10/2019	-	26.75	-
GH6-M1	11/4/2019	-	27.07	-
GH6-M1	12/19/2019	-	27.54	-
GH8-M3	10/10/2019	-	25.98	-
GH8-M3	11/4/2019	-	26.33	-
GH8-M3	12/19/2019	-	26.8	-
GH9-M4	10/10/2019	-	Buried	-
GH9-M4	11/4/2019	-	Buried	-
GH9-M4	12/19/2019	-	-	-
M6-1	10/10/2019	-	6.12	-
M6-1	11/4/2019	-	6.3	-
M6-1	12/19/2019	-	6.16	-
M6-2	10/10/2019	-	5.08	-
M6-2	11/4/2019	-	5.35	-
M6-2	12/19/2019	-	4.62	-
M7-1	10/10/2019	-	7.35	-
M7-1	11/4/2019	-	7.62	-
M7-1	12/19/2019	-	7.29	-
M7-2	10/10/2019	-	6.87	-
M7-2	11/4/2019	-	7.15	-
M7-2	12/19/2019	-	6.49	-
MBCM7-7	10/10/2019	16.64	10.81	5.83
MBCM7-7	11/4/2019	16.64	10.96	5.68
MBCM7-7	12/19/2019	16.64	11.4	5.24
MBCM8-8	10/10/2019	16.53	8.06	8.47
MBCM8-8	11/4/2019	16.53	8.46	8.07
MBCM8-8	12/19/2019	16.53	7.19	9.34
MBCM9-9	10/10/2019	17.71	7.63	10.08
MBCM9-9	11/4/2019	17.71	7.86	9.85
MBCM9-9	12/19/2019	17.71	7.32	10.39
MBCM10-10	10/10/2019	17.74	8.2	9.54
MBCM10-10	11/4/2019	17.74	8.33	9.41
MBCM10-10	12/19/2019	17.74	8.83	8.91
MCWP-MW04S	10/10/2019	15.29	6.65	8.64



Shallow Groundwater Monitoring Wells				
Well ID	Date	TOC Elevation (ft)	Depth to Water (ft bTOC)	Groundwater Elevation
MCWP-MW04S	11/4/2019	15.29	6.96	8.33
MCWP-MW04S	12/19/2019	15.29	5.86	9.43
MCWP-MW07S	10/10/2019	13.72	5.69	8.03
MCWP-MW07S	11/4/2019	13.72	5.98	7.74
MCWP-MW07S	12/19/2019	13.72	5.8	7.92
MCWP-MW08	10/10/2019	12.21	7.65	4.56
MCWP-MW08	11/4/2019	12.21	7.55	4.66
MCWP-MW08	12/19/2019	12.21	8.58	3.63
MCWP-MW10	10/10/2019	11.11	5.76	5.35
MCWP-MW10	11/4/2019	11.11	5.78	5.33
MCWP-MW10	12/19/2019	11.11	8.09	3.02
P-4	10/10/2019	12.16	4.73	7.43
P-4	11/4/2019	12.16	4.73	7.43
P-4	12/19/2019	12.16	7.04	5.12
P-9	10/10/2019	12.17	5.06	7.11
P-9	11/4/2019	12.17	5.12	7.05
P-9	12/19/2019	12.17	7.61	4.56
SMBRP-2	10/10/2019	13.13	6.03	7.10
SMBRP-2	11/4/2019	13.13	6.14	6.99
SMBRP-2	12/19/2019	13.13	8.69	4.44
SMBRP-6	10/10/2019	26.88	16.17	10.71
SMBRP-6	11/4/2019	26.88	16.33	10.55
SMBRP-6	12/19/2019	26.88	14.54	12.34
SMBRP-7B	10/10/2019	18.99	10.15	8.84
SMBRP-7B	11/4/2019	18.99	10.33	8.66
SMBRP-7B	12/19/2019	18.99	10.16	8.83
SMBRP-8 (ECI-RC-MW01)	10/10/2019	48.69	26.23	22.46
SMBRP-8 (ECI-RC-MW01)	11/4/2019	48.69	26.8	21.89
SMBRP-8 (ECI-RC-MW01)	12/19/2019	48.69	27.21	21.48
SMBRP-9	10/10/2019	50.32	35.74	14.58
SMBRP-9	11/4/2019	50.32	36.15	14.17
SMBRP-9	12/19/2019	50.32	36.7	13.62
SMBRP-10C	10/10/2019	16.25	6.56	9.69
SMBRP-10C	11/4/2019	16.25	6.74	9.51
SMBRP-10C	12/19/2019	16.25	5.05	11.2
SMBRP-12	10/10/2019	12.62	7.29	5.33
SMBRP-12	11/4/2019	12.62	7.47	5.15
SMBRP-12	12/19/2019	12.62	7.3	5.32
SMBRP-13	10/10/2019	13.58	8.5	5.08
SMBRP-13	11/4/2019	13.58	8.37	5.21
SMBRP-13	12/19/2019	13.58	8.51	5.07
SMBRP-15B	10/10/2019	16.77	dry	-
SMBRP-15B	11/4/2019	16.77	dry	-
SMBRP-15B	12/19/2019	16.77	dry	-
SMBRP-16	10/10/2019	14.50	4.04	10.46
SMBRP-16	11/4/2019	14.50	4.5	10
SMBRP-16	12/19/2019	14.50	5.3	9.2



Deep Groundwater Monitoring Wells				
Well ID	Date	TOC Elevation (ft)	Depth to Water (ft bTOC)	Groundwater Elevation
MCWP-MW01	10/10/2019	17.90	10.02	7.88
MCWP-MW01	11/4/2019	17.90	10.2	7.7
MCWP-MW01	12/19/2019	17.90	10.54	7.36
MCWP-MW02	10/10/2019	18.06	10.15	7.91
MCWP-MW02	11/4/2019	18.06	10.23	7.83
MCWP-MW02	12/19/2019	18.06	12.02	6.04
MCWP-MW03	10/10/2019	15.31	7.73	7.58
MCWP-MW03	11/4/2019	15.31	7.76	7.55
MCWP-MW03	12/19/2019	15.31	7.76	7.55
MCWP-MW04D	10/10/2019	15.43	9.18	6.25
MCWP-MW04D	11/4/2019	15.43	9.81	5.62
MCWP-MW04D	12/19/2019	15.43	9.72	5.71
MCWP-MW05	10/10/2019	13.92	7.35	6.57
MCWP-MW05	11/4/2019	13.92	7.40	6.52
MCWP-MW05	12/19/2019	13.92	7.88	6.04
MCWP-MW06	10/10/2019	16.05	9.63	6.42
MCWP-MW06	11/4/2019	16.05	9.57	6.48
MCWP-MW06	12/19/2019	16.05	10.1	5.95
MCWP-MW07D	10/10/2019	13.21	7.59	5.62
MCWP-MW07D	11/4/2019	13.21	7.61	5.60
MCWP-MW07D	12/19/2019	13.21	7.65	5.56
MCWP-MW09	10/10/2019	16.30	5.75	10.55
MCWP-MW09	11/4/2019	16.30	5.80	10.50
MCWP-MW09	12/19/2019	16.30	6.19	10.11

TOC: top of well casing

ft bTOC: feet below top of well casing

TOC elevation referenced to NAVD88



Winter Canyon Groundwater Monitoring Wells				
Well ID	Date	TOC Elevation (ft)	Depth to Water (ft bTOC)	Groundwater Elevation
LAMW-5S	10/10/2019	104.55	51.1	53.45
LAMW-5S	11/4/2019	104.55	52.48	52.07
LAMW-5S	12/19/2019	104.55	52.86	51.69
SMBRP-11	10/10/2019	18.35	8.56	9.79
SMBRP-11	11/4/2019	18.35	8.70	9.65
SMBRP-11	12/19/2019	18.35	8.59	9.76

ft bTOC: feet below top of well casing
 TOC elevation referenced to NAVD88



Groundwater	Long-Term GW Monitoring SNMP MOU	SNMP MOU	Long-Term GW Monitoring SNMP MOU	Long-Term GW Monitoring SNMP MOU	Long-Term GW Monitoring SNMP MOU	SNMP MOU	SNMP MOU	Long-Term GW Monitoring SNMP MOU	Long-Term GW Monitoring SNMP MOU	SNMP	SNMP	Long-Term GW Monitoring SNMP MOU	Long-Term GW Monitoring SNMP MOU	Long-Term GW Monitoring SNMP MOU	SNMP MOU	SNMP MOU
Laboratory Analysis	LAMW-5S	SMBRP-7B	SMBRP-9	SMBRP-11 ¹	SMBRP-12	SMBRP-13	MBCMW-9	MCWP-MW04S	MCWP-MW04D	MCWP-MW05	MCWP-MW06	MCWP-MW07S	MCWP-MW07D	MCWP-MW09	MCWP-MW10	CCPE
General Chemistry (Long-Term sampled quarterly, SNMP and MOU sampled semi-annually)																
General Chemistry (pH, Total Dissolved Solids, Sulfate, Chloride, Boron, Methylene Blue Active Substances [MBAS]/Foaming Agents)	✓	-	✓	✓	✓	-	-	✓	✓	-	-	✓	✓	✓	-	-
Biological Oxygen Demand (BOD)	✓	-	✓	✓	✓	-	-	✓	✓	-	-	✓	✓	✓	-	-
Turbidity (includes color and odor)	✓	-	✓	✓	✓	-	-	✓	✓	-	-	✓	✓	✓	-	-
Total and Fecal Coliform	✓	-	✓	✓	✓	-	-	✓	✓	-	-	✓	✓	✓	-	-
Total Suspended Solids	✓	-	✓	✓	✓	-	-	✓	✓	-	-	✓	✓	✓	-	-
Residual Chlorine	✓	-	✓	✓	✓	-	-	✓	✓	-	-	✓	✓	✓	-	-
Total Organic Carbon	✓	-	✓	✓	✓	-	-	✓	✓	-	-	✓	✓	✓	-	-
Oil and Grease	✓	-	✓	✓	✓	-	-	✓	✓	-	-	✓	✓	✓	-	-
Nitrate as Nitrogen	✓	-	✓	✓	✓	-	-	✓	✓	-	-	✓	✓	✓	-	-
Nitrite as Nitrogen	✓	-	✓	✓	✓	-	-	✓	✓	-	-	✓	✓	✓	-	-
Nitrate and Nitrite as Nitrogen (calculation)	✓	-	✓	✓	✓	-	-	✓	✓	-	-	✓	✓	✓	-	-
Ammonia Nitrogen	✓	-	✓	✓	✓	-	-	✓	✓	-	-	✓	✓	✓	-	-
Kjeldahl Nitrogen	✓	-	✓	✓	✓	-	-	✓	✓	-	-	✓	✓	✓	-	-
Organic Nitrogen (calculation)	✓	-	✓	✓	✓	-	-	✓	✓	-	-	✓	✓	✓	-	-
Total Nitrogen (includes TKN)	✓	-	✓	✓	✓	-	-	✓	✓	-	-	✓	✓	✓	-	-
Total Phosphorous	✓	-	✓	✓	✓	-	-	✓	✓	-	-	✓	✓	✓	-	-

Surface Water	Long-Term SW Monitoring									
Laboratory Analysis (quarterly)	N-001	N-002	N-003	N-004	L-001	L-002	L-003	L-004	L-005	L-006
Total and Fecal Coliform	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Nitrate as Nitrogen	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Nitrite as Nitrogen	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Ammonia Nitrogen	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Organic Nitrogen	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Kjeldahl Nitrogen	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Total Phosphorous	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Notes:
 ✓: Laboratory analysis completed
 -: Sampling & analysis not required
¹: TY-MW-1 was replaced by SMBRP-11 per LARWQCB correspondence with City of Malibu dated May 18, 2018

Location	Monitoring Depth	Sample ID	Sample Date	Coliform Bacteria Analysis (MPN/100mL)		Inorganic Analysis (mg/L)						
				Total	Fecal	Nitrate Nitrogen	Nitrite Nitrogen	Total Organic Nitrogen	Ammonia Nitrogen	Total Kjeldahl Nitrogen	Total Nitrogen	Total Phosphorous
Near Shore	Ankle Depth	N-001	11/6/2019	= 2000	< 1	< 0.012	< 0.900	= 0.060	< 0.010	= 0.056	= 0.056	= 0.039
Near Shore	Ankle Depth	N-002	11/6/2019	= 2000	< 1	< 0.012	< 0.900	= 0.120	< 0.010	= 0.124	= 0.124	= 0.024
Near Shore	Ankle Depth	N-003	11/6/2019	> 2400	= 32	< 0.012	< 0.900	< 0.040	< 0.010	< 0.052	< 0.030	= 0.068
Near Shore	Ankle Depth	N-004	11/6/2019	= 2000	< 1	< 0.012	< 0.900	< 0.040	< 0.010	< 0.052	< 0.030	= 0.022
Malibu Lagoon and Creek	1 foot BSW	L-001	11/6/2019	> 2400	= 100	< 0.012	< 0.180	= 0.580	< 0.010	= 0.582	= 0.582	= 0.132
Malibu Lagoon and Creek	1 foot BSW	L-002	11/6/2019	> 2,400	= 230	= 0.130	< 0.180	= 0.500	< 0.010	= 0.498	= 0.628	= 0.121
Malibu Lagoon and Creek	1 foot BSW	L-003	11/6/2019	> 2,400	= 520	< 0.012	< 0.180	= 0.690	< 0.010	= 0.692	= 0.692	= 0.108
Malibu Lagoon and Creek	1 foot BSW	L-004	11/6/2019	> 2,400	= 360	< 0.012	< 0.180	= 1.220	< 0.010	= 1.200	= 1.220	= 0.135
Malibu Lagoon and Creek	1 foot BSW	L-005	11/6/2019	< 1	< 1	< 0.012	< 0.180	= 0.750	< 0.010	= 0.748	= 0.748	= 0.095
Malibu Lagoon and Creek	1 foot BSW	L-006	11/6/2019	> 2,400	= 650	< 0.012	< 0.180	= 1.200	< 0.010	= 1.200	= 1.200	= 0.215

Notes:

bold: Constituent detected above Reporting Detection Limit (RDL)

mg/L: milligrams per liter

MPN/100mL: Most Probable Number per 100 milliliters

NR: Not reported due to poor quality of culture membrane during laboratory analysis

<: Constituent not detected above the RDL

>: Constituent detected above the laboratory upper detection limit

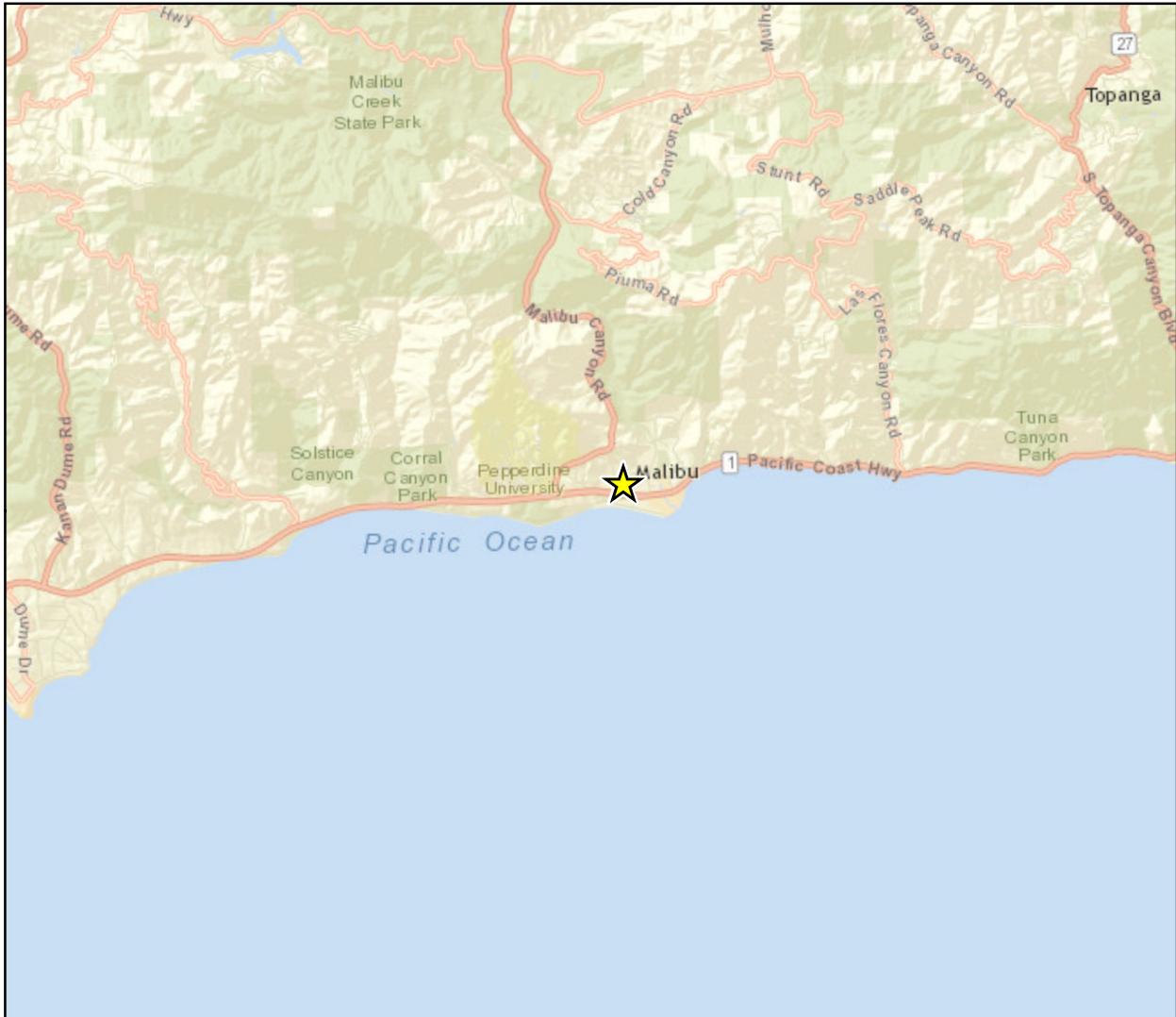
			Coliform Bacteria (MPN/100mL)		Inorganic Analyses (mg/L)											
Well ID	Well Depth (ft. bgs)	Sample Date	Total	Fecal	Nitrate Nitrogen	Nitrite Nitrogen	Nitrate + Nitrite as N	Organic Nitrogen	Ammonia Nitrogen	Total Kjeldahl Nitrogen	Total Nitrogen	Phosphorous, Total	Boron	Sulfate	Total Dissolved Solids	Chloride
LAMW-5S	73	11/5/19	= 330	= 2	= 4.97	< 0.018	= 4.97	= 0.74	< 0.01	= 0.743	= 5.71	= 1.84	= 0.267	= 81.5	= 496	= 112
SMBRP-9	45	11/5/19	= 33	= 6.3	= 1.4	< 0.018	= 1.4	= 0.66	< 0.01	= 0.657	= 2.06	= 0.025	= 0.559	= 176	= 1,020	= 105
SMBRP-11	20	11/5/19	= 19	< 1	= 3.01	< 0.018	= 3.01	= 3.00	= 1.5	= 3	= 6.01	= 0.032	= 0.614	= 389	= 1,210	= 297
SMBRP-12	25	11/6/19	= 290	< 1	< 0.012	< 0.018	= --	= 34.60	= 5.35	= 40	= 40	= 1.215	= 0.756	= 399	= 1,510	= 406
MCWP-MW04S	20	11/5/19	= 25	< 1	= 1.41	< 0.018	= 1.41	= 1.20	< 0.01	= 1.2	= 2.61	= 0.32	= 1.6	= 2,550	= 5,050	= 606
MCWP-MW04D	148	11/7/19	< 1	< 1	= 1.61	< 0.018	= --	< 0.04	< 0.01	< 0.05	= --	= 0.071	= 0.827	= 515	= 1,490	= 258
MCWP-MW07S	20	11/6/19	= 2000	< 1	= 5.03	< 0.018	= --	< 0.04	= 0.149	= 0.155	= 5.18	= 0.146	= 0.333	= 278	= 1,040	= 208
MCWP-MW07D	130	11/6/19	= 1,300	< 1	= 0.43	< 0.018	= --	= 2.06	= 0.242	= 2.3	= 2.73	= 0.284	= 0.109	= 120	= 308	= 79.8
MCWP-MW09	95	11/6/19	= 180	< 1	= 0.18	< 0.018	= --	= 0.85	= 1.05	= 1.9	= 2.08	= 0.287	= 0.626	= 498	= 1,710	= 463

Notes:

- bold: Constituent detected above Reporting Detection Limit (RDL)
- mg/L: Milligrams per liter
- MPN/100mL: Most Probable Number per 100 milliliter
- <: Constituent not detected above the RDL
- >: Constituent detected above the laboratory upper detection limit

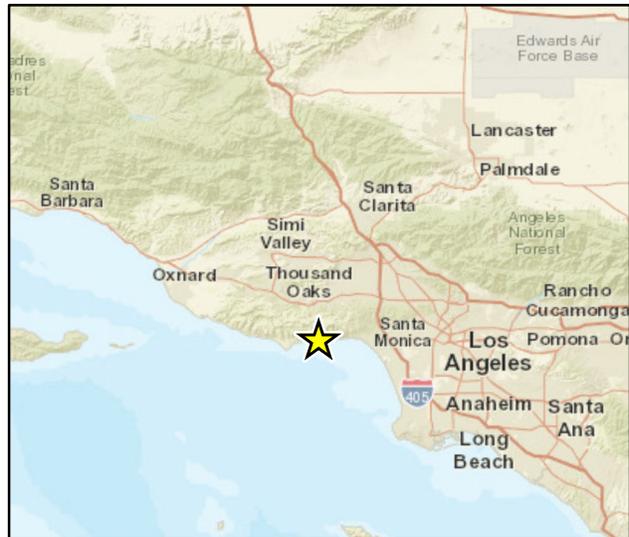
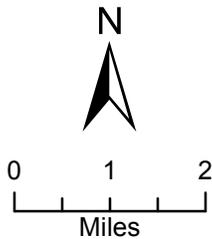


Figures



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★ Project Location



Vicinity Map

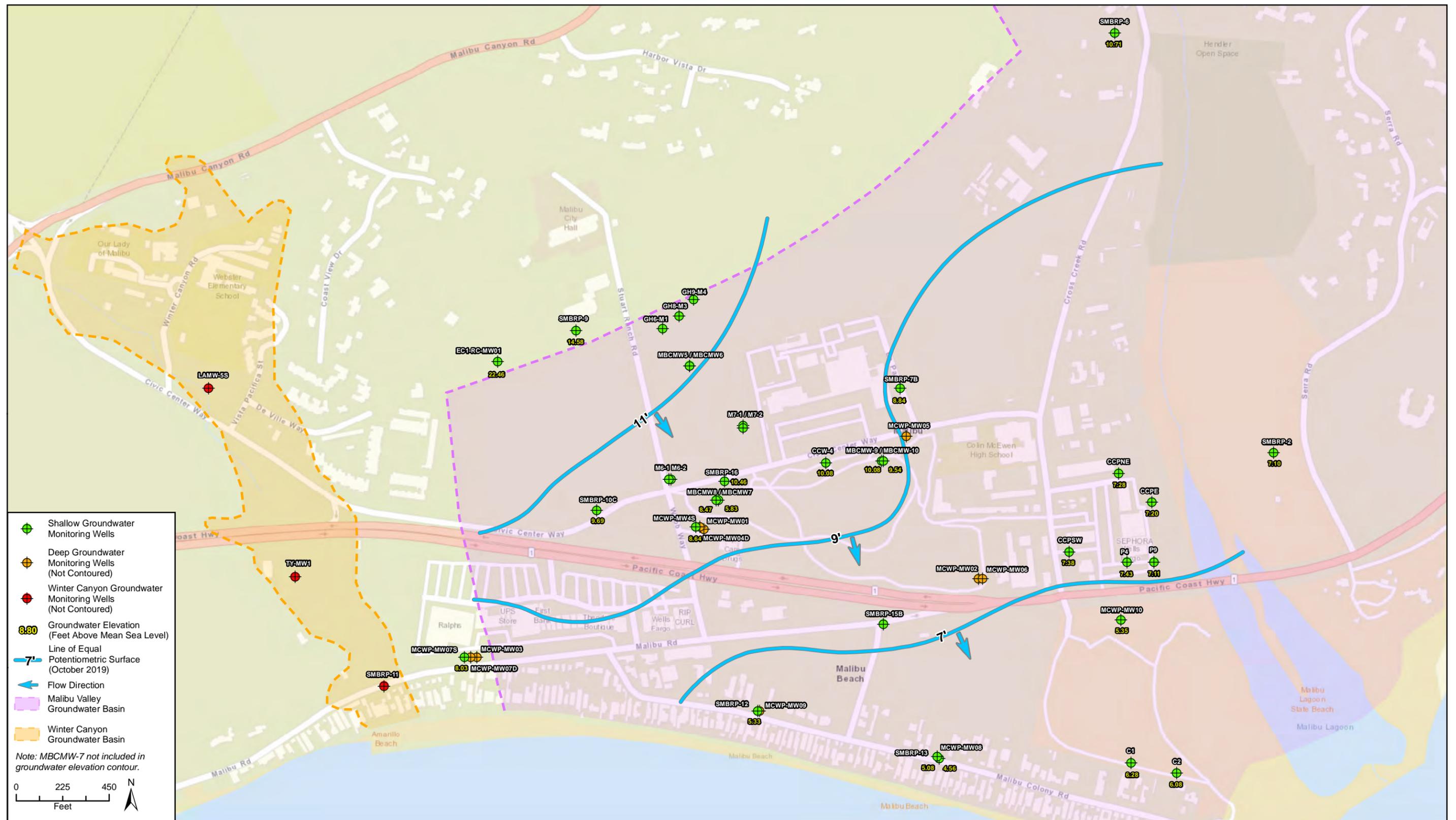
Figure 1



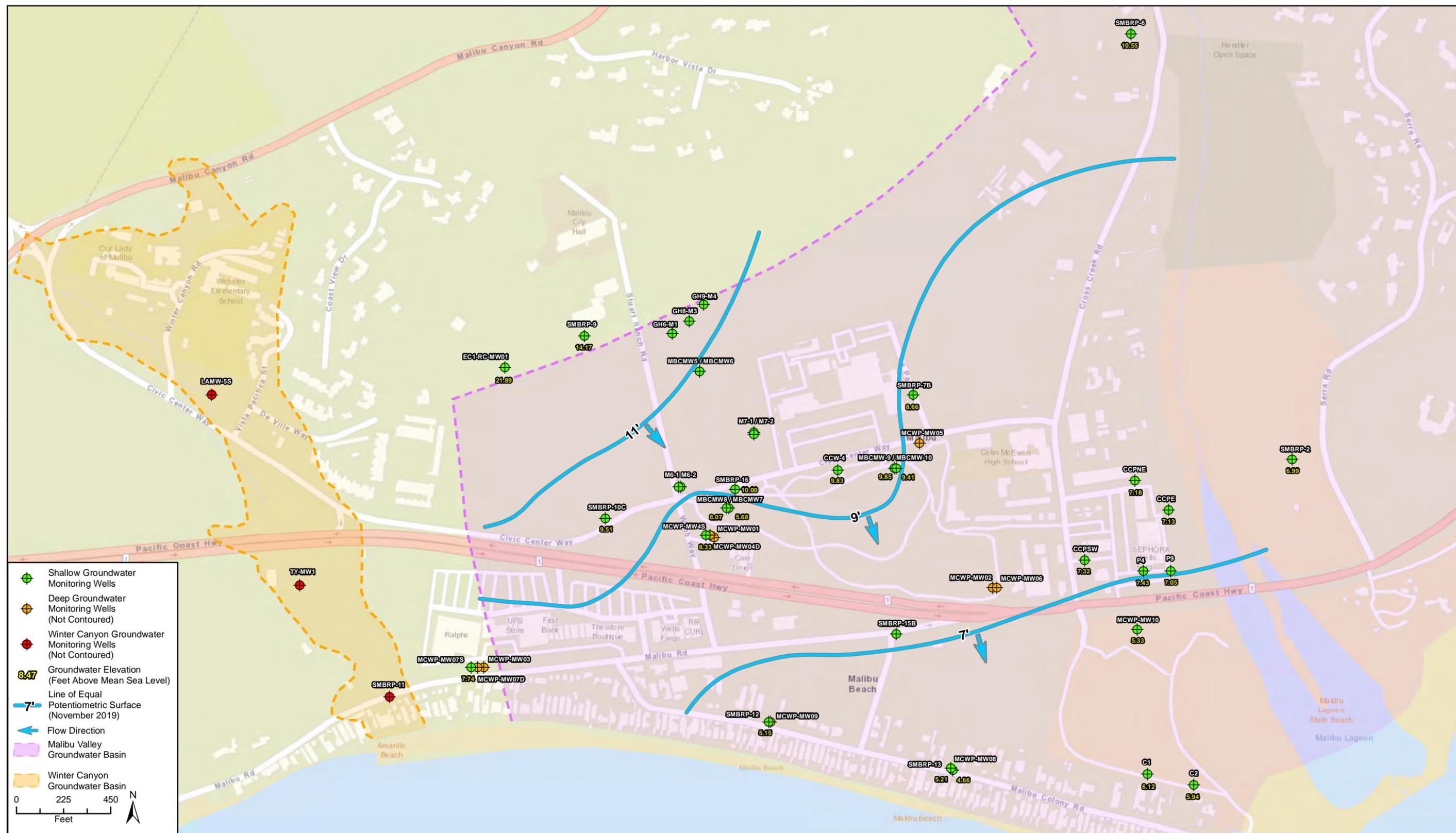


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Site Map - Civic Center Area

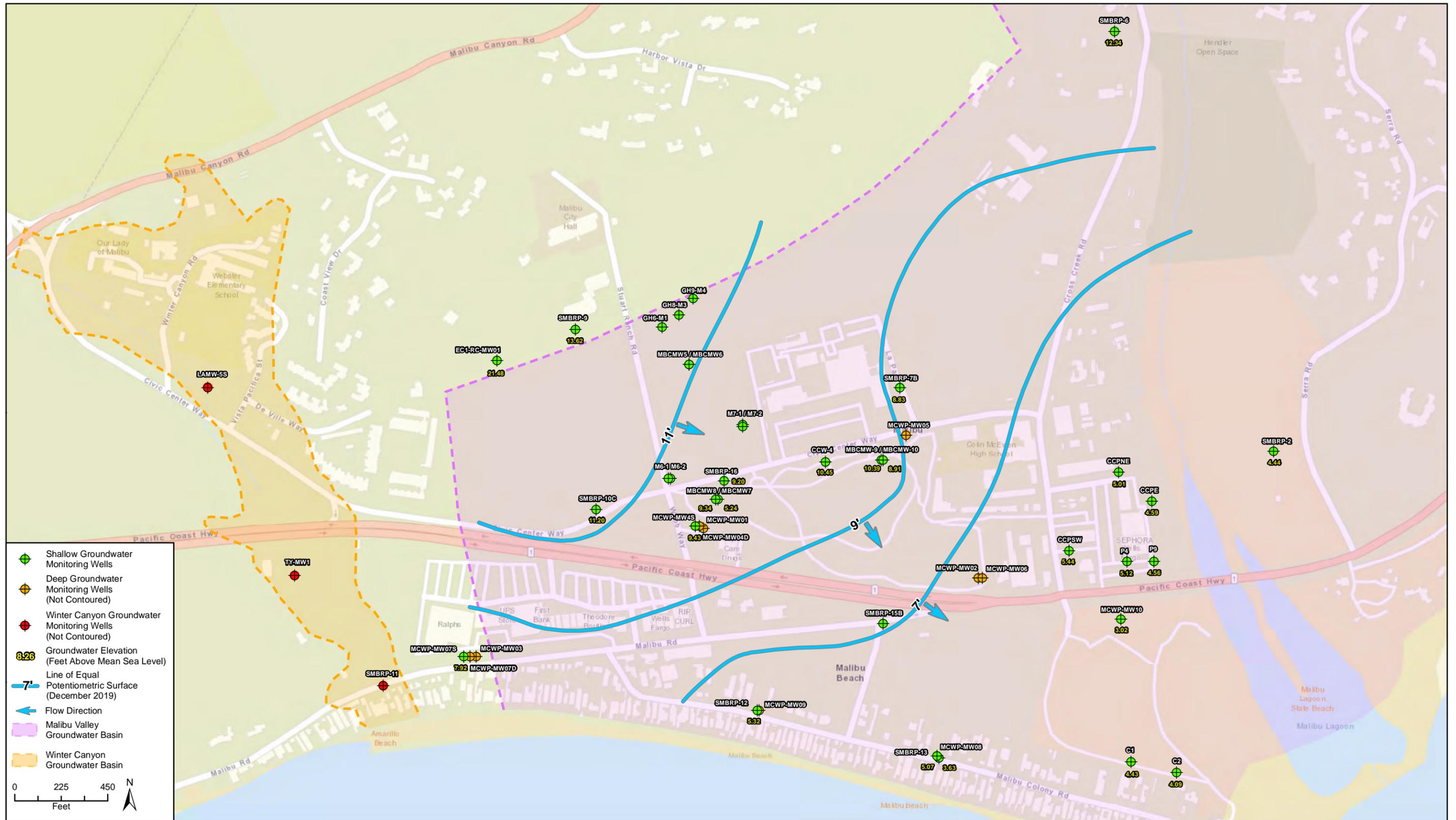


Shallow Groundwater Elevation
 October 2019



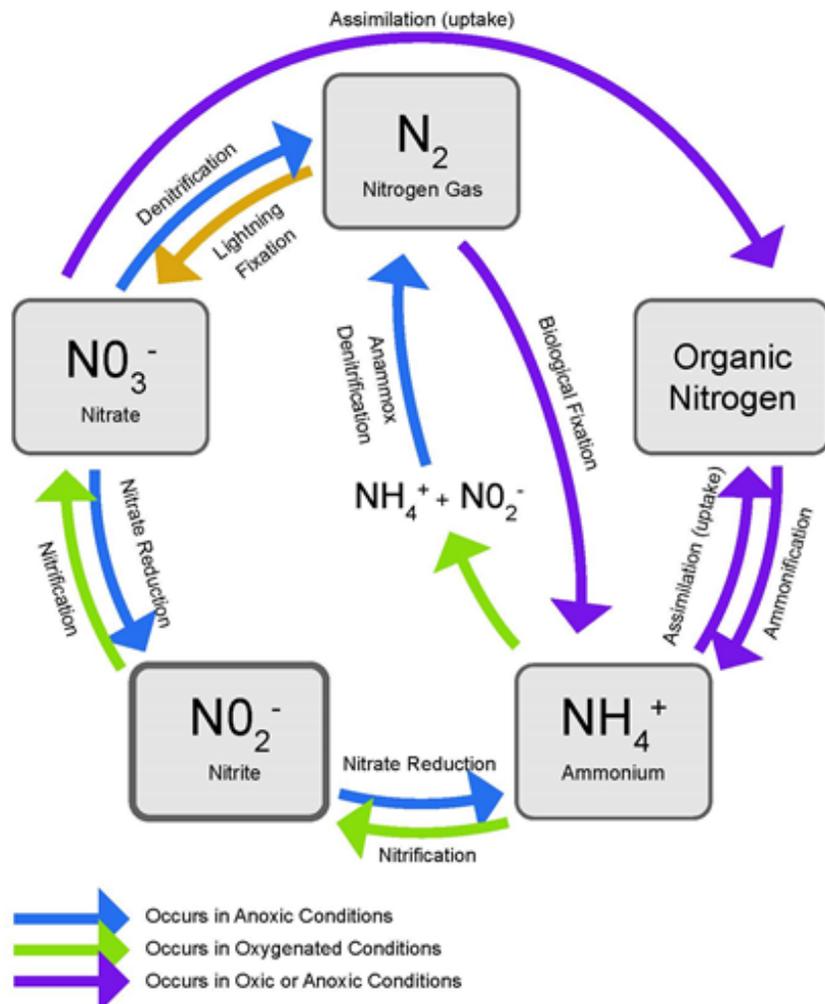
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Shallow Groundwater Elevation
 November 2019



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Shallow Groundwater Elevation
 December 2019



The Nitrogen Cycle

Figure 6

Appendix A

Groundwater and Surface Water Field Sheets

Malibu
Monthly Gauging Sheet

Well ID	Total Well Depth (ft bTOC)	Well Diameter (in)	Time 11/14/19	Depth to Water (feet)	Well Head Deficiencies Comments
C-1	14.5	n/a	1507	5.35	
C-2	14.5	2	1458	5.25	
CCPE	52	2	1434	5.81	
CCPNE		2	1437	6.50	
CCPSW		2	1443	6.35	
CCW-4		1	1534	5.94	
GH6-M1	35	2	1413	27.07	
GH8-M3	40	2	1417	26.33	
GH9-M4	45	2	—	—	Buried
Lagoon	n/a	n/a	—	—	
LAMW-5S	74	4	1005	52.48	Tot. depth = 76.1
M6-1	45	2	1424	6.3	
M6-2	20	2	1425	5.35	
M7-1	40	2	1407	7.62	
M7-2	25	2	1405	7.15	
MBCMW-5	19.4	n/a	—	—	
MBCMW-6	64.26	n/a	—	—	
MBCMW-7	52.5	2	1439	10.96	
MBCMW-8	10	2	1438	8.46	
MBCMW-9	9	2	1451	7.86	
MBCMW-10	53	2	1450	8.33	
MCWP-MW01	148	6	1206	10.2	
MCWP-MW02	145	6	1522	10.23	
MCWP-MW03	134	6	1129	7.76	
MCWP-MW04D	145	4	0940	9.81	TD = 137.09
MCWP-MW04S	20	4	1130	6.96	TD = 20.2
MCWP-MW05	150	4	1446	7.4	
MCWP-MW06	137	2	1520	9.57	
MCWP-MW07D	134	2	1130	7.61	TD = 129.33
MCWP-MW07S	20	2	1133	5.98	TD = 16.93
MCWP-MW08	77	2	1528	7.55	
MCWP-MW09	89	2	1100	5.8	TD = 89.2
MCWP-MW10	22	2	1450	5.78	
P-4	12.5	4	1425	4.73	
P-9	14.3	4	1428	5.12	
SMBRP-2	25	2	1415	6.14	
SMBRP-6	25	2	1404	16.33	
SMBRP-7b	25	2	1052	10.33	
SMBRP-8 (EG-RC MW01)	60	4	1000	26.8	
SMBRP-9	45	2	1539	36.15	TD = 45.25
SMBRP-10C	25	2	1005	6.74	
SMBRP-11	20	2	1130	8.7	TD = 19.95
SMBRP-12	25	2	1514	7.47	TD = 24.75
SMBRP-13	20	2	1515	8.37	
SMBRP-15b	25	1	Dry	—	
SMBRP-16	25	2	1444	4.5	

Rincon Consultants, Inc.
GROUND WATER SAMPLING/PURGING DATA SHEET

Job No: 15-01587	Date: 11/4/19
Project/Location Malibu, CA Civic Center Area	Well Number: LAMW-5S
Observation Period Start: 1025 Stop: 1115	Survey Reference Point: TOC
Sampled By: Nico Navarro	Witnessed By: Michelle Carter

PURGING DATA

Type of Pump	Grundfos	Pump Inlet Depth (ft)	71.0
Well Diameter (in)	4	Depth of Well (ft)	76.1
Initial/Static Depth to Water (ft)	52.48	Length of Water Column (ft)	23.62
Product Thickness (ft)	—	Volume Multiplier (gal/ft)	0.65
One Casing Volume (gal)	15.35	Three Casing Volumes (gal)	46.0
Purge Time, Start	1038	Purge Time, Stop	1058
Total Purge Time (minutes)	20	Purge Rate (gpm)	2.0
Purge Volume (gal)	20 (de-aerated @ 20 gal)	Depth to Water (ft) at Sampling	52.5

CASING OR BOREHOLE VOLUME

0.5-inch Diameter = 0.010 gal/ft 0.75-inch Diameter = 0.023 gal/ft 1-inch Diameter = 0.041 gal/ft 1.5-inch Diameter = 0.092 gal/ft 2-inch Diameter = 0.16 gal/ft	4-inch Diameter = 0.65 gal/ft 6-inch Diameter = 1.46 gal/ft 9-inch Diameter = 3.30 gal/ft 12-inch Diameter = 5.87 gal/ft 15-inch Diameter = 9.18 gal/ft
--	---

INDICATOR DATA

Volume Pumped (gal)	Before Purge	15.5	~20					At Sampling
Temperature (C)	24.1	24.6	25.1					23.0
pH	6.68	6.89	6.8					7.16
Conductivity (µS)	989	1000	1003					953
Dissolved Oxygen (mg/L)	3.04	4.95	2.66					4.77
Dissolved Oxygen (%)	36.3	59.9	32.3					55.7
TDS (ppm)	0.43	0.41	0.41					0.39
Turbidity (NTU)	3.91	17.38	13.96					41.5

Depth to Water at End of Purge (ft) 66.8 Drawdown (ft) 14.4

Comments: *Slow recharge well, sampled day after purge*

MISCELLANEOUS DATA

Condition of Traffic Box: Good

Drum Identification labeling: Non-Hazardous Waste

Water Level Indicator: Solinst Model 101

Weather Conditions: Clear

Comments: Sampled Time: 1015 / 11.5.19

Well Recovery Calculation
 Static Depth to Water in feet + (0.2) (maximum Drawdown in feet) = Depth to Water at 80% Recovery

$$\underline{52.48} + 0.2 * \underline{14.4} = \underline{55.36}$$

Rincon Consultants, Inc.
GROUND WATER SAMPLING/PURGING DATA SHEET

Job No: 15-01587	Date: 11/4/19
Project/Location Malibu, CA Civic Center Area	Well Number: mcwp-mw045
Observation Period Start: 1130 Stop: 1200	Survey Reference Point: TOC
Sampled By: Niw Navarro	Witnessed By: Michelle Carter

PURGING DATA

Type of Pump	Grundfos	Pump Inlet Depth (ft)	17
Well Diameter (in)	4	Depth of Well (ft)	20.2
Initial/Static Depth to Water (ft)	6.96	Length of Water Column (ft)	13.24
Product Thickness (ft)	—	Volume Multiplier (gal/ft)	0.65
One Casing Volume (gal)	8.6	Three Casing Volumes (gal)	25.8
Purge Time, Start	1139	Purge Time, Stop	1154
Total Purge Time (minutes)	15	Purge Rate (gpm)	0.67
Purge Volume (gal)	10	Depth to Water (ft) at Sampling	7.47

CASING OR BOREHOLE VOLUME

0.5-inch Diameter = 0.010 gal/ft 0.75-inch Diameter = 0.023 gal/ft 1-inch Diameter = 0.041 gal/ft 1.5-inch Diameter = 0.092 gal/ft 2-inch Diameter = 0.16 gal/ft	4-inch Diameter = 0.65 gal/ft 6-inch Diameter = 1.46 gal/ft 9-inch Diameter = 3.30 gal/ft 12-inch Diameter = 5.87 gal/ft 15-inch Diameter = 9.18 gal/ft
--	---

INDICATOR DATA

Volume Pumped (gal)	Before Purge	9.0	17.5	26.0		At Sampling
Temperature (C)	24.6	23.7				23.7
pH	7.34	7.33	Dewatered @			7.29
Conductivity (µS)	7940	6553	~10 gallons			6277
Dissolved Oxygen (mg/L)	2.56	3.23				7.04
Dissolved Oxygen (%)	31.0	38.9			water clear	84.9
TDS (ppm)	2.78	2.31			←	>2000
Turbidity (NTU)	3.65	3.18				1.77

Depth to Water at End of Purge (ft) 16.7 Drawdown (ft) 9.74

Comments: High TDS rating despite similar conductivity for "At sampling" reading; errant possible reading

MISCELLANEOUS DATA

Condition of Traffic Box: Missing one bolt

Drum Identification labeling: Non-Hazardous Waste

Water Level Indicator: Solinst Model 101

Weather Conditions: Clear

Comments: Sampled Time: 1100 / 11.5.19

Well Recovery Calculation
 Static Depth to Water in feet + (0.2) (maximum Drawdown in feet) = Depth to Water at 80% Recovery

$$\underline{6.96} + 0.2 * \underline{9.74} = \underline{8.91}$$

Rincon Consultants, Inc.
GROUND WATER SAMPLING/PURGING DATA SHEET

Job No: 15-01587	Date: 11/4/19
Project/Location Malibu, CA Civic Center Area	Well Number: SMBRP-11
Observation Period Start: 1130 Stop: 1200	Survey Reference Point: TOC
Sampled By: Michelle Carter	Witnessed By: Nico Navarro

PURGING DATA

Type of Pump	Hand bail	Pump Inlet Depth (ft)	—
Well Diameter (in)	2	Depth of Well (ft)	19.95
Initial/Static Depth to Water (ft)	8.7	Length of Water Column (ft)	11.25
Product Thickness (ft)	—	Volume Multiplier (gal/ft)	0.16
One Casing Volume (gal)	1.8	Three Casing Volumes (gal)	5.4
Purge Time, Start	1130	Purge Time, Stop	1140
Total Purge Time (minutes)	10	Purge Rate (gpm)	0.55
Purge Volume (gal)	5.5	Depth to Water (ft) at Sampling	8.72

CASING OR BOREHOLE VOLUME

0.5-inch Diameter = 0.010 gal/ft	4-inch Diameter = 0.65 gal/ft
0.75-inch Diameter = 0.023 gal/ft	6-inch Diameter = 1.46 gal/ft
1-inch Diameter = 0.041 gal/ft	9-inch Diameter = 3.30 gal/ft
1.5-inch Diameter = 0.092 gal/ft	12-inch Diameter = 5.87 gal/ft
2-inch Diameter = 0.16 gal/ft	15-inch Diameter = 9.18 gal/ft

INDICATOR DATA

Volume Pumped (gal)	Before Purge	2.0	4.0	5.5			At Sampling
Temperature (C)	238	22.7	22.6	22.9			24.0
pH	6.89	6.96	7.13	7.24			7.03
Conductivity (µS)	2271	2300	2206	2144			2304 446
Dissolved Oxygen (mg/L)	3.49	4.29	5.5	5.99			4.46
Dissolved Oxygen (%)	41.6	49.9	64.1	70.2			53.4
TDS (ppm)	TDS meter giving errant readings						1117929
Turbidity (NTU)	7.14	16.53	16	5			3.37
Depth to Water at End of Purge (ft)				17.96	Drawdown (ft)		9.26

Comments: Slow recharge

MISCELLANEOUS DATA

Condition of Traffic Box:	Good
Drum Identification labeling:	Non-Hazardous Waste
Water Level Indicator:	Solinst Model 101
Weather Conditions:	Clear

Comments: Well Recovery Calculation
 Static Depth to Water in feet + (0.2) (maximum Drawdown in feet) = Depth to Water at 80% Recovery

Sampled Time: 1145 / 11.5.19

$$\underline{8.7} + 0.2 * \underline{9.26} = \underline{10.55}$$

Rincon Consultants, Inc.
GROUND WATER SAMPLING/PURGING DATA SHEET

Job No: 15-01587	Date: 11/5/19
Project/Location Malibu, CA Civic Center Area	Well Number: SMARP-9
Observation Period Start: 0850 Stop: 0950	Survey Reference Point: TOC
Sampled By: Michelle Carter	Witnessed By: Nico Navarro

PURGING DATA

Type of Pump	Hand bail	Pump Inlet Depth (ft)	—
Well Diameter (in)	2	Depth of Well (ft)	45.0
Initial/Static Depth to Water (ft)	36.15	Length of Water Column (ft)	8.85
Product Thickness (ft)	—	Volume Multiplier (gal/ft)	0.16
One Casing Volume (gal)	1.42	Three Casing Volumes (gal)	4.25
Purge Time, Start	0850	Purge Time, Stop	930
Total Purge Time (minutes)	40	Purge Rate (gpm)	0.11
Purge Volume (gal)	4.5	Depth to Water (ft) at Sampling	36.4

CASING OR BOREHOLE VOLUME

0.5-inch Diameter = 0.010 gal/ft 0.75-inch Diameter = 0.023 gal/ft 1-inch Diameter = 0.041 gal/ft 1.5-inch Diameter = 0.092 gal/ft 2-inch Diameter = 0.16 gal/ft	4-inch Diameter = 0.65 gal/ft 6-inch Diameter = 1.46 gal/ft 9-inch Diameter = 3.30 gal/ft 12-inch Diameter = 5.87 gal/ft 15-inch Diameter = 9.18 gal/ft
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INDICATOR DATA

Volume Pumped (gal)	Before Purge	1.5	3.0	4.5				At Sampling
Temperature (C)	21.3	21.9	22.2	22.1				
pH	7.25	7.30	7.35	7.34				
Conductivity (µS)	877	1878	1897	1912				
Dissolved Oxygen (mg/L)	3.54	4.32	4.59	4.43				
Dissolved Oxygen (%)	39.8	49.5	53.0	51.0				
TDS (ppm)	795	804	822	826				
Turbidity (NTU)	1.93	43.9	85.6	72				

Depth to Water at End of Purge (ft)	37.42	Drawdown (ft)	1.27
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Comments: Well recharged w/in 5 mins. of end of purge

MISCELLANEOUS DATA

Condition of Traffic Box:	Good
Drum Identification labeling:	Non-Hazardous Waste
Water Level Indicator:	Solinst Model 101
Weather Conditions:	Clear

Comments: Sampled Time: 0945

Well Recovery Calculation
 Static Depth to Water in feet + (0.2) (maximum Drawdown in feet) = Depth to Water at 80% Recovery

$$\underline{36.15} + 0.2 * \underline{1.27} = \underline{36.4}$$

Rincon Consultants, Inc.
GROUND WATER SAMPLING/PURGING DATA SHEET

Job No: 15-01587	Date: 11/6/19
Project/Location Malibu, CA Civic Center Area	Well Number: MCWP-MW07D
Observation Period Start: 0845 Stop: 1015	Survey Reference Point: TOC
Sampled By: Nico Navarro	Witnessed By: Michelle Carter

PURGING DATA

Type of Pump	Grundfos	Pump Inlet Depth (ft)	125
Well Diameter (in)	2	Depth of Well (ft)	129.33
Initial/Static Depth to Water (ft)	7.61	Length of Water Column (ft)	121.72
Product Thickness (ft)	—	Volume Multiplier (gal/ft)	0.16
One Casing Volume (gal)	19.48	Three Casing Volumes (gal)	58.42
Purge Time, Start	0915	Purge Time, Stop	0945
Total Purge Time (minutes)	30	Purge Rate (gpm)	1.95
Purge Volume (gal)	58.5	Depth to Water (ft) at Sampling	7.61

CASING OR BOREHOLE VOLUME

0.5-inch Diameter = 0.010 gal/ft 0.75-inch Diameter = 0.023 gal/ft 1-inch Diameter = 0.041 gal/ft 1.5-inch Diameter = 0.092 gal/ft 2-inch Diameter = 0.16 gal/ft	4-inch Diameter = 0.65 gal/ft 6-inch Diameter = 1.46 gal/ft 9-inch Diameter = 3.30 gal/ft 12-inch Diameter = 5.87 gal/ft 15-inch Diameter = 9.18 gal/ft
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INDICATOR DATA

Volume Pumped (gal)	Before Purge	19.5	39	58.5				At Sampling
Temperature (C)	19.6	20.7	21.3	21.2				
pH	7.07	7.18	7.18	7.17				
Conductivity (µS)	2519	3349	3434	3429				
Dissolved Oxygen (mg/L)	3.47	2.19	2.31	2.54				
Dissolved Oxygen (%)	37.5	24.7	26.6	27.4				
TDS (ppm)	1.07	1.19	1.21	1.19				
Turbidity (NTU)	149	46	25	10				
Depth to Water at End of Purge (ft)				7.66	Drawdown (ft)		0.05	

Comments:

MISCELLANEOUS DATA

Condition of Traffic Box: Good
Drum Identification labeling: Non-Hazardous Waste
Water Level Indicator: Solinst Model 101
Weather Conditions: Overcast

Comments:

Sampled Time: 1000

Well Recovery Calculation
 Static Depth to Water in feet + (0.2) (maximum Drawdown in feet) = Depth to Water at 80% Recovery

$$\underline{7.61} + 0.2 * \underline{0.05} = \underline{7.61}$$

Rincon Consultants, Inc.
GROUND WATER SAMPLING/PURGING DATA SHEET

Job No: 15-01587	Date: 11/6/19
Project/Location Malibu, CA Civic Center Area	Well Number: MCWP-MW075
Observation Period Start: 0930 Stop: 1045	Survey Reference Point: TOC
Sampled By: Nico Navarro	Witnessed By: Michelle Carter

PURGING DATA

Type of Pump	Hand bail	Pump Inlet Depth (ft)	—
Well Diameter (in)	2	Depth of Well (ft)	16.93
Initial/Static Depth to Water (ft)	5.98	Length of Water Column (ft)	10.95
Product Thickness (ft)	—	Volume Multiplier (gal/ft)	0.16
One Casing Volume (gal)	1.75	Three Casing Volumes (gal)	5.2
Purge Time, Start	0945	Purge Time, Stop	1000
Total Purge Time (minutes)	15	Purge Rate (gpm)	0.37
Purge Volume (gal)	5.5	Depth to Water (ft) at Sampling	6.0

CASING OR BOREHOLE VOLUME

0.5-inch Diameter = 0.010 gal/ft	4-inch Diameter = 0.65 gal/ft
0.75-inch Diameter = 0.023 gal/ft	6-inch Diameter = 1.46 gal/ft
1-inch Diameter = 0.041 gal/ft	9-inch Diameter = 3.30 gal/ft
1.5-inch Diameter = 0.092 gal/ft	12-inch Diameter = 5.87 gal/ft
2-inch Diameter = 0.16 gal/ft	15-inch Diameter = 9.18 gal/ft

INDICATOR DATA

Volume Pumped (gal)	Before Purge	2.0	4.0	5.5				At Sampling
Temperature (C)	21.3	20.6	20.4	20.6				
pH	7.49	7.45	7.51	7.57				
Conductivity (µS)	1927	1838	1948	1728				
Dissolved Oxygen (mg/L)	3.87	4.0	4.75	6.89				
Dissolved Oxygen (%)	43.7	44.7	53.2	77.3				
TDS (ppm)	0.71	0.73	0.72	0.70				
Turbidity (NTU)	0	19.8	503	116				
Depth to Water at End of Purge (ft)				15.16	Drawdown (ft)	9.18		

Comments: NTU reading negative & giving erratic measurements; fast recharge well

MISCELLANEOUS DATA

Condition of Traffic Box: Missing one bolt

Drum Identification labeling: Non-Hazardous Waste

Water Level Indicator: Solinst Model 101

Weather Conditions: Overcast

Comments: 1030

Well Recovery Calculation
 Static Depth to Water in feet + (0.2) (maximum Drawdown in feet) = Depth to Water at 80% Recovery

5.98 + 0.2 * 9.18 = 7.81

Rincon Consultants, Inc.
GROUND WATER SAMPLING/PURGING DATA SHEET

Job No: 15-01587	Date: 11/6/19
Project/Location Malibu, CA Civic Center Area	Well Number: MCWP-MW09
Observation Period Start: 1100 Stop: 1300	Survey Reference Point: TOC
Sampled By: Nico Navarro	Witnessed By: Michelle Carter

PURGING DATA

Type of Pump	Grnd fns	Pump Inlet Depth (ft)	85
Well Diameter (in)	2	Depth of Well (ft)	89.2
Initial/Static Depth to Water (ft)	5.8	Length of Water Column (ft)	83.4
Product Thickness (ft)	—	Volume Multiplier (gal/ft)	0.16
One Casing Volume (gal)	13.34	Three Casing Volumes (gal)	40.0
Purge Time, Start	1150	Purge Time, Stop	1225
Total Purge Time (minutes)	35	Purge Rate (gpm)	1.14
Purge Volume (gal)	40	Depth to Water (ft) at Sampling	5.8

CASING OR BOREHOLE VOLUME

0.5-inch Diameter = 0.010 gal/ft	4-inch Diameter = 0.65 gal/ft
0.75-inch Diameter = 0.023 gal/ft	6-inch Diameter = 1.46 gal/ft
1-inch Diameter = 0.041 gal/ft	9-inch Diameter = 3.30 gal/ft
1.5-inch Diameter = 0.092 gal/ft	12-inch Diameter = 5.87 gal/ft
2-inch Diameter = 0.16 gal/ft	15-inch Diameter = 9.18 gal/ft

INDICATOR DATA

Volume Pumped (gal)	Before Purge	13.5	27	40				At Sampling
Temperature (C)	23.7	23.8	23.1	22.6				23.0
pH	7.48	7.44	7.40	7.36				7.39
Conductivity (µS)	3279	3227	3245	3368				3397
Dissolved Oxygen (mg/L)	1.53	1.83	2.15	1.95				2.57
Dissolved Oxygen (%)	18.5	22.0	25.4	22.7				30.2
TDS (ppm)	1.20	1.18	1.21	1.30				1.28
Turbidity (NTU)	595	490	72	15				19
Depth to Water at End of Purge (ft)				5.92	Drawdown (ft)		0.12	

Comments:

MISCELLANEOUS DATA

Condition of Traffic Box: Good

Drum Identification labeling: Non-Hazardous Waste

Water Level Indicator: Solinst Model 101

Weather Conditions: Clear

Comments:

Sampled Time: _____

Well Recovery Calculation
 Static Depth to Water in feet + (0.2) (maximum Drawdown in feet) = Depth to Water at 80% Recovery

$$\underline{5.8} + 0.2 * \underline{0.12} = \underline{5.82}$$

Rincon Consultants, Inc.
GROUND WATER SAMPLING/PURGING DATA SHEET

Job No: 15-01587	Date: 11/6/19
Project/Location Malibu, CA Civic Center Area	Well Number: SMBRP-12
Observation Period Start: 1105 Stop: 1215	Survey Reference Point: TOC
Sampled By: Michelle	Witnessed By: NICO

PURGING DATA

Type of Pump	Hand bail	Pump Inlet Depth (ft)	—
Well Diameter (in)	2	Depth of Well (ft)	24.75
Initial/Static Depth to Water (ft)	7.47	Length of Water Column (ft)	17.28
Product Thickness (ft)	—	Volume Multiplier (gal/ft)	0.16
One Casing Volume (gal)	2.76	Three Casing Volumes (gal)	8.3
Purge Time, Start	1110	Purge Time, Stop	1135
Total Purge Time (minutes)	25	Purge Rate (gpm)	0.34
Purge Volume (gal)	8.5	Depth to Water (ft) at Sampling	7.47

CASING OR BOREHOLE VOLUME

0.5-inch Diameter = 0.010 gal/ft 0.75-inch Diameter = 0.023 gal/ft 1-inch Diameter = 0.041 gal/ft 1.5-inch Diameter = 0.092 gal/ft 2-inch Diameter = 0.16 gal/ft	4-inch Diameter = 0.65 gal/ft 6-inch Diameter = 1.46 gal/ft 9-inch Diameter = 3.30 gal/ft 12-inch Diameter = 5.87 gal/ft 15-inch Diameter = 9.18 gal/ft
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INDICATOR DATA

Volume Pumped (gal)	Before Purge	3.0	5.5	8.5				At Sampling
Temperature (C)	24.1	24.2	24.1	24.0				
pH	7.23	7.3	7.3	7.3				
Conductivity (µS)	1390	2786	2867	2933				
Dissolved Oxygen (mg/L)	4.92	3.94	4.95	4.54				
Dissolved Oxygen (%)	59.3	47.0	59.9	54.3				
TDS (ppm)	0.58	1.02	1.06	1.06				
Turbidity (NTU)	26.6	16.4	17.7	10.7				
Depth to Water at End of Purge (ft)				7.47	Drawdown (ft)	0		

Comments:

MISCELLANEOUS DATA

Condition of Traffic Box: Good
Drum Identification labeling: Non-Hazardous Waste
Water Level Indicator: Solinst Model 101
Weather Conditions: Clear

Comments:

Sampled Time: 1200

Well Recovery Calculation
 Static Depth to Water in feet + (0.2) (maximum Drawdown in feet) = Depth to Water at 80% Recovery

$$7.47 + 0.2 * 0 = 7.47$$

Rincon Consultants, Inc.
GROUND WATER SAMPLING/PURGING DATA SHEET

Job No: 15-01587	Date: 11/7/19
Project/Location Malibu, CA Civic Center Area	Well Number: MCWP - MW04D
Observation Period Start: 0940 Stop: 1315	Survey Reference Point: TOC
Sampled By: Nio Navarro	Witnessed By: Michelle Carter

PURGING DATA

Type of Pump	Grundfos	Pump Inlet Depth (ft)	142
Well Diameter (in)	4	Depth of Well (ft)	146.9
Initial/Static Depth to Water (ft)	9.81	Length of Water Column (ft)	137.09
Product Thickness (ft)	—	Volume Multiplier (gal/ft)	0.65
One Casing Volume (gal)	89.1	Three Casing Volumes (gal)	267.3
Purge Time, Start	1030	Purge Time, Stop	1240
Total Purge Time (minutes)	130	Purge Rate (gpm)	2.06
Purge Volume (gal)	267.5	Depth to Water (ft) at Sampling	9.81

CASING OR BOREHOLE VOLUME

0.5-inch Diameter = 0.010 gal/ft	4-inch Diameter = 0.65 gal/ft
0.75-inch Diameter = 0.023 gal/ft	6-inch Diameter = 1.46 gal/ft
1-inch Diameter = 0.041 gal/ft	9-inch Diameter = 3.30 gal/ft
1.5-inch Diameter = 0.092 gal/ft	12-inch Diameter = 5.87 gal/ft
2-inch Diameter = 0.16 gal/ft	15-inch Diameter = 9.18 gal/ft

INDICATOR DATA

Volume Pumped (gal)	Before Purge	89.5	178.5	267.5				At Sampling
Temperature (C)	20.2	21.6	21.7	21.7				
pH	7.18	7.18	7.18	7.18				
Conductivity (µS)	2003	2177	2217	2187				
Dissolved Oxygen (mg/L)	3.17	2.47	2.33	2.37				
Dissolved Oxygen (%)	35.1	28.3	27.3	27.3				
TDS (ppm)	995	998	1015	1030				
Turbidity (NTU)	18.24	3.58	0.19	0				
Depth to Water at End of Purge (ft)		9.83		Drawdown (ft)	0.02			

Comments:

MISCELLANEOUS DATA

Condition of Traffic Box: Good

Drum Identification labeling: Non-Hazardous Waste

Water Level Indicator: Solinst Model 101

Weather Conditions: Clear

Comments: Sampled Time: 1245

Well Recovery Calculation
 Static Depth to Water in feet + (0.2) (maximum Drawdown in feet) = Depth to Water at 80% Recovery

9.81 + 0.2 * 0.02 = 9.81

Malibu Civic Center Quarterly Surface Water Sampling
Field Data Sheet

Date: 11/6/19 Sampled By: James Gruenden

Jan-Mar Apr-Jun July-Sep Oct-Dec
(Circle appropriate)

Estuary (Circle appropriate)
Berm: open / closed

General Weather Conditions
Partially cloudy / breezy
w/ some sun.

General Wind Conditions
light variable winds < 5 kts

Daily Low
Tides: Time: 12:10 pm Feet: 2.1

High
Time: 0609 Feet: 4.5

Location	Time	Sea State	Water Clarity	Water Color	Odors	Floatables	Birds/ wildlife	Photos Taken
								Y/N
		calm	clear	clear	none	none	Type & #	
		rough	cloudy	red	rotten eggs	sheen	land, # water	
			muddy	brown	sewage	oily		
			milky	yellow	chlorine	garbage		
				gray	ammonia	sewage		
L#-001	0955	N/A	Cloudy Brown	Brown	none	none	1 hawk	Y
L#-002	1013 1035	N/A	Cloudy Cloudy	Brown Brown	rotten eggs none	garbage none	85 Am. Coots 23 Am. Coots	Y
L#-003	1013	N/A	cloudy	Brown	slight rotten eggs	garbage	85 Am. Coots	Y
L#-004	1057	N/A	cloudy	Brown	none	none	2 Mallards 1 w. gull 600 Am. Coots	Y
N#-001	1222	N/A CALM	clear	clear	none	none	5 Coots	Y
N#-002	1235	N/A CALM	clear	clear	none	none	2 grebes 1 curlew	Y
N#-003	1147	N/A CALM	clear	clear	none	none	40 Scaup 205 w. Coots 1 Coot	Y
N#-004	1315	N/A CALM	clear	clear	none	none	1 w. gull 1 cormorant	Y
L-005	1135	calm	cloudy	Brown	none	Some garbage	700 Coots 2 Killdeer 19 Cormorants 10 Mallards 57 w. Coots	Y
L-006	1110	N/A	cloudy	Brown	none	none	75 Am. Coots 12 Mallards 1 snowy ejret	Y

Malibu
Monthly Gauging Sheet

Well ID	Total Well Depth (ft bTOC)	Well Diameter (in)	Time 12/19/19	Depth to Water	Well Head Deficiencies Comments
C-1	14.5	n/a	1321	7.04	
C-2	14.5	2	1325	7.10	
CCPE	52	2	1303	8.35	
CCPNE		2	1307	8.67	
CCPSW		2	1415	8.23	
CCW-4		1	1212	5.32	
GH6-M1	35	2	1107	27.54	
GH8-M3	40	2	1110	26.80	
GH9-M4	45	2	—	—	BURIED
Lagoon	n/a	n/a	—	—	INACCESSIBLE
LAMW-5S	74	4	1421	52.86	
M6-1	45	2	1121	6.16	
MG-2	20	2	1122	4.62	
M7-1	40	2	1116	7.29	
M7-2	25	2	1117	6.49	
MBCMW-5	19.4	n/a	—	—	BURIED
MBCMW-6	64.26	n/a	—	—	"
MBCMW-7	52.5	2	1150	11.40	
MBCMW-8	10	2	1149	7.19	
MBCMW-9	9	2	1208	7.32	
MBCMW-10	53	2	1209	8.83	
MCWP-MW01	148	6	1138	10.54	
MCWP-MW02	145	6	1337	12.02	
MCWP-MW03	134	6	1347	7.76	
MCWP-MW04D	145	4	1141	9.72	
MCWP-MW04S	20	4	1143	5.96	
MCWP-MW05	150	4	1205	7.88	
MCWP-MW06	137	2	1338	10.10	
MCWP-MW07D	134	2	1349	7.65	
MCWP-MW07S	20	2	1350	5.80	
MCWP-MW08	77	2	1407	8.58	
MCWP-MW09	89	2	1400	6.19	
MCWP-MW10	22	2	1315	8.09	
P-4	12.5	4	1258	7.04	
P-9	14.3	4	1300	7.61	
SMBRP-2	25	2	1238	8.69	
SMBRP-6	25	2	1228	14.54	
SMBRP-7b	25	2	1219	10.16	
SMBRP-8 (EG-RC MW01)	60	4	1101	27.21	
SMBRP-9	45	2	1050	36.70	
SMBRP-10C	25	2	1128	5.05	
SMBRP-11	20	2	1353	8.59	
SMBRP-12	25	2	1401	7.30	
SMBRP-13	20	2	1408	8.51	
SMBRP-15b	25	1	—	—	DRY
SMBRP-16	25	2	1146	5.90	

Appendix B

Laboratory Analytical Reports



Enthalpy Analytical, LLC

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Client: Rincon Consultants - Ventura
Address: 180 North Ashwood Ave.
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Attn: Kiernan Brtalik

Comments: Malibu-Quarterly
PO# 15-01587

Lab Request: 420981
Report Date: 11/13/2019
Date Received: 11/05/2019
Client ID: 15888

This laboratory request covers the following listed samples which were analyzed for the parameters indicated on the attached Analytical Result Report. All analyses were conducted using the appropriate methods. Methods accredited by NELAC are indicated on the report. This cover letter is an integral part of the final report.

Sample # **Client Sample ID**

420981-001 LAMW-5S
420981-002 SMBRP-9
420981-003 SMBRP-11
420981-004 MCWP-MW04S

Thank you for the opportunity to be of service to your company. Please feel free to call if there are any questions regarding this report or if we can be of further service.

Report Review performed by: Ranjit Clarke, Project Manager

NOTE: Unless notified in writing, all samples will be discarded by appropriate disposal protocol 45 days from date received.

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Matrix: Water	Client: Rincon Consultants - Ventura	Collector:
Sampled: 11/05/2019 10:15	Site:	
Sample #: <u>420981-001</u>	Client Sample #: LAMW-5S	Sample Type:

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed By	Notes
Method: ALCH 4024 Prep Method: None							QCBatchID:	
Total Organic Nitrogen	0.74	1	0.04	0.4	mg/L		11/08/19	SLL
Method: ALCH 4025 Prep Method: None							QCBatchID:	
Total Nitrogen	5.71	1	0.03	0.4	mg/L		11/08/19	SLL
Method: EPA 1664A Prep Method: Method							QCBatchID: QC1208547	
Total Oil and Grease	2.8 J	1.11	1.554	5.55	mg/L	11/07/19	11/07/19	EC J
Method: EPA 200.7 Prep Method: EPA 200.7							QCBatchID: QC1208504	
Boron	0.267	1	0.03	0.05	mg/L		11/08/19	SBW
Method: EPA 300.0 Prep Method: Method							QCBatchID: QC1208456	
Chloride	112	1	0.086	1	mg/L	11/05/19	11/05/19 22:55	JP
Nitrate + Nitrite, as Nitrogen	4.97	1	0.018	0.1	mg/L	11/05/19	11/05/19 22:55	JP
Nitrate, as Nitrogen	4.97	1	0.012	0.1	mg/L	11/05/19	11/05/19 22:55	JP
Nitrite, as Nitrogen	ND	1	0.018	0.1	mg/L	11/05/19	11/05/19 22:55	JP
Sulfate	81.5	1	0.077	1	mg/L	11/05/19	11/05/19 22:55	JP
Method: EPA 351.2 Prep Method: Method							QCBatchID: QC1208561	
Total Kjeldahl Nitrogen	0.743	1	0.052	0.4	mg/L	11/07/19	11/08/19	TP
Method: SM 2120-B Prep Method: Method							QCBatchID: QC1208448	
Color	ND	1	5	5	Color Unit		11/05/19 17:10	WW
Method: SM 2130-B Prep Method: Method							QCBatchID: QC1208449	
Turbidity	48	1	0.074	0.1	NTU		11/05/19 17:10	WW
Method: SM 2150-B Prep Method: Method							QCBatchID: QC1208539	
Odor Threshold	ND	1	1	1	T.O.N		11/05/19 17:10	WW
Method: SM 2540-C Prep Method: Method							QCBatchID: QC1208584	
Total Dissolved Solids	496	2	20	20	mg/L	11/08/19	11/09/19	TP
Method: SM 2540-D Prep Method: SM 2540-D							QCBatchID: QC1208599	
Total Suspended Solids	42.9	1.54	0.77	0.77	mg/L	11/05/19	11/05/19	NP
Method: SM 4500-Cl Prep Method: Method							QCBatchID: QC1208490	
Chlorine, Total Residual	ND	1	0.016	0.1	mg/L		11/06/19 16:51	WW T2
Method: SM 4500-H+B Prep Method: Method							QCBatchID: QC1208550	
pH	7.03	1			SU	11/06/19 00:00	11/06/19 09:02	WW T2
Temp. at Time of pH Measurement	4.7	1			°C	11/06/19 00:00	11/06/19 09:02	WW
Method: SM 4500-NH3-G Prep Method: Method							QCBatchID: QC1208472	
Ammonia, as Nitrogen	ND	1	0.01	0.1	mg/L	11/06/19	11/06/19	TP
Method: SM 4500-P-B-5-E Prep Method: 4500-P-B-5							QCBatchID: QC1208705	
Total Phosphorous as P	1.840	20	0.2	0.4	mg/L	11/12/19	11/12/19	TP
Total Phosphorous as PO4	5.64	20	0.6	1.2	mg/L	11/12/19	11/12/19	TP
Method: SM 5210-B Prep Method: Method/5day							QCBatchID: QC1208496	
BOD	ND	1	3	3	mg/L	11/06/19	11/06/19 09:02	WW BQ2
Method: SM 5310B Prep Method: Method							QCBatchID: QC1208488	
Total Organic Carbon (TOC)	4.49	1	0.091	1	mg/L	11/06/19	11/06/19	TP
Method: SM 5540-C Prep Method: Method							QCBatchID: QC1208557	
MBAS	0.17	1	0.027	0.04	mg/L	11/07/19 08:00	11/07/19 16:42	NP
Method: sm 9223-B-b Prep Method: Method							QCBatchID: QC1208458	
Fecal Coliform	2	1			MPN/100ml	11/05/19 18:11	11/06/19	CO
Total Coliform	330	1			MPN/100ml	11/05/19 18:11	11/06/19	CO

Matrix: Water	Client: Rincon Consultants - Ventura	Collector:
Sampled: 11/05/2019 09:45	Site:	
Sample #: <u>420981-002</u>	Client Sample #: SMBRP-9	Sample Type:

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed By	Notes
Method: ALCH 4024	Prep Method: None		QCBatchID:					
Total Organic Nitrogen	0.66	1	0.04	0.4	mg/L	11/08/19	SLL	
Method: ALCH 4025	Prep Method: None		QCBatchID:					
Total Nitrogen	2.06	1	0.03	0.4	mg/L	11/08/19	SLL	
Method: EPA 1664A	Prep Method: Method		QCBatchID: QC1208547					
Total Oil and Grease	1.7 J	1.05	1.47	5.25	mg/L	11/07/19	11/07/19	EC J
Method: EPA 200.7	Prep Method: EPA 200.7		QCBatchID: QC1208504					
Boron	0.559	1	0.03	0.05	mg/L	11/08/19	SBW	
Method: EPA 300.0	Prep Method: Method		QCBatchID: QC1208456					
Chloride	105	1	0.086	1	mg/L	11/05/19	11/05/19 23:15	JP
Nitrate + Nitrite, as Nitrogen	1.40	1	0.018	0.1	mg/L	11/05/19	11/05/19 23:15	JP
Nitrate, as Nitrogen	1.40	1	0.012	0.1	mg/L	11/05/19	11/05/19 23:15	JP
Nitrite, as Nitrogen	ND	1	0.018	0.1	mg/L	11/05/19	11/05/19 23:15	JP
Sulfate	176	10	0.77	10	mg/L	11/05/19	11/06/19 01:11	JP
Method: EPA 351.2	Prep Method: Method		QCBatchID: QC1208561					
Total Kjeldahl Nitrogen	0.657	1	0.052	0.4	mg/L	11/07/19	11/08/19	TP
Method: SM 2120-B	Prep Method: Method		QCBatchID: QC1208448					
Color	ND	1	5	5	Color Unit	11/05/19 17:10	WW	
Method: SM 2130-B	Prep Method: Method		QCBatchID: QC1208449					
Turbidity	190	1	0.074	0.1	NTU	11/05/19 17:10	WW	
Method: SM 2150-B	Prep Method: Method		QCBatchID: QC1208539					
Odor Threshold	ND	1	1	1	T.O.N	11/05/19 17:10	WW	
Method: SM 2540-C	Prep Method: Method		QCBatchID: QC1208584					
Total Dissolved Solids	1020	2	20	20	mg/L	11/08/19	11/09/19	TP
Method: SM 2540-D	Prep Method: SM 2540-D		QCBatchID: QC1208599					
Total Suspended Solids	327	4	2	2	mg/L	11/05/19	11/05/19	NP
Method: SM 4500-Cl	Prep Method: Method		QCBatchID: QC1208490					
Chlorine, Total Residual	ND	1	0.016	0.1	mg/L	11/06/19 16:51	WW	T2
Method: SM 4500-H+B	Prep Method: Method		QCBatchID: QC1208550					
pH	7.21	1			SU	11/06/19 00:00	11/06/19 09:10	WW T2
Temp. at Time of pH Measurement	5	1			°C	11/06/19 00:00	11/06/19 09:10	WW
Method: SM 4500-NH3-G	Prep Method: Method		QCBatchID: QC1208472					
Ammonia, as Nitrogen	ND	1	0.01	0.1	mg/L	11/06/19	11/06/19	TP
Method: SM 4500-P-B-5-E	Prep Method: 4500-P-B-5		QCBatchID: QC1208705					
Total Phosphorous as P	0.025	1	0.01	0.02	mg/L	11/12/19	11/12/19	TP
Total Phosphorous as PO4	0.077	1	0.03	0.06	mg/L	11/12/19	11/12/19	TP
Method: SM 5210-B	Prep Method: Method/5day		QCBatchID: QC1208496					
BOD	ND	1	3	3	mg/L	11/06/19	11/06/19 09:10	WW BQ2
Method: SM 5310B	Prep Method: Method		QCBatchID: QC1208488					
Total Organic Carbon (TOC)	23.0	1	0.091	1	mg/L	11/06/19	11/06/19	TP
Method: SM 5540-C	Prep Method: Method		QCBatchID: QC1208557					
MBAS	0.094	1	0.027	0.04	mg/L	11/07/19 08:00	11/07/19 16:42	NP
Method: sm 9223-B-b	Prep Method: Method		QCBatchID: QC1208458					
Fecal Coliform	6.3	1			MPN/100ml	11/05/19 18:11	11/06/19	CO
Total Coliform	33	1			MPN/100ml	11/05/19 18:11	11/06/19	CO

Matrix: Water	Client: Rincon Consultants - Ventura	Collector:
Sampled: 11/05/2019 11:45	Site:	
Sample #: <u>420981-003</u>	Client Sample #: SMBRP-11	Sample Type:

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed By	Notes
Method: ALCH 4024 Prep Method: None							QCBatchID:	
Total Organic Nitrogen	3.00	1	0.04	0.4	mg/L		11/08/19	SLL
Method: ALCH 4025 Prep Method: None							QCBatchID:	
Total Nitrogen	6.01	1	0.03	0.4	mg/L		11/08/19	SLL
Method: EPA 1664A Prep Method: Method							QCBatchID: QC1208547	
Total Oil and Grease	2.0 J	1.05	1.47	5.25	mg/L	11/07/19	11/07/19	EC J
Method: EPA 200.7 Prep Method: EPA 200.7							QCBatchID: QC1208504	
Boron	0.614	1	0.03	0.05	mg/L		11/08/19	SBW
Method: EPA 300.0 Prep Method: Method							QCBatchID: QC1208456	
Chloride	297	10	0.86	10	mg/L	11/05/19	11/06/19 01:31	JP
Nitrate + Nitrite, as Nitrogen	3.01	1	0.018	0.1	mg/L	11/05/19	11/06/19 01:31	JP
Nitrate, as Nitrogen	3.01	1	0.012	0.1	mg/L	11/05/19	11/05/19 23:34	JP
Nitrite, as Nitrogen	ND	1	0.018	0.1	mg/L	11/05/19	11/05/19 23:34	JP
Sulfate	389	10	0.77	10	mg/L	11/05/19	11/06/19 01:31	JP
Method: EPA 351.2 Prep Method: Method							QCBatchID: QC1208561	
Total Kjeldahl Nitrogen	3.0	1	0.052	0.4	mg/L	11/07/19	11/08/19	TP
Method: SM 2120-B Prep Method: Method							QCBatchID: QC1208448	
Color	ND	1	5	5	Color Unit		11/05/19 17:10	WW
Method: SM 2130-B Prep Method: Method							QCBatchID: QC1208449	
Turbidity	51	1	0.074	0.1	NTU		11/05/19 17:10	WW
Method: SM 2150-B Prep Method: Method							QCBatchID: QC1208539	
Odor Threshold	ND	1	1	1	T.O.N		11/05/19 17:10	WW
Method: SM 2540-C Prep Method: Method							QCBatchID: QC1208584	
Total Dissolved Solids	1210	2	20	20	mg/L	11/08/19	11/09/19	TP
Method: SM 2540-D Prep Method: SM 2540-D							QCBatchID: QC1208599	
Total Suspended Solids	91.2	2.5	1.25	1.25	mg/L	11/05/19	11/05/19	NP
Method: SM 4500-Cl Prep Method: Method							QCBatchID: QC1208490	
Chlorine, Total Residual	ND	1	0.016	0.1	mg/L		11/06/19 16:51	WW T2
Method: SM 4500-H+B Prep Method: Method							QCBatchID: QC1208550	
pH	6.72	1			SU	11/06/19 00:00	11/06/19 09:08	WW T2
Temp. at Time of pH Measurement	4.9	1			°C	11/06/19 00:00	11/06/19 09:08	WW
Method: SM 4500-NH3-G Prep Method: Method							QCBatchID: QC1208472	
Ammonia, as Nitrogen	1.50	1	0.01	0.1	mg/L	11/06/19	11/06/19	TP
Method: SM 4500-P-B-5-E Prep Method: 4500-P-B-5							QCBatchID: QC1208705	
Total Phosphorous as P	0.032	1	0.01	0.02	mg/L	11/12/19	11/12/19	TP
Total Phosphorous as PO4	0.098	1	0.03	0.06	mg/L	11/12/19	11/12/19	TP
Method: SM 5210-B Prep Method: Method/5day							QCBatchID: QC1208496	
BOD	ND	1	3	3	mg/L	11/06/19	11/06/19 09:08	WW
Method: SM 5310B Prep Method: Method							QCBatchID: QC1208488	
Total Organic Carbon (TOC)	8.45	1	0.091	1	mg/L	11/06/19	11/06/19	TP
Method: SM 5540-C Prep Method: Method							QCBatchID: QC1208557	
MBAS	0.20	1	0.027	0.04	mg/L	11/07/19 08:00	11/07/19 16:42	NP
Method: sm 9223-B-b Prep Method: Method							QCBatchID: QC1208458	
Fecal Coliform	<1	1			MPN/100ml	11/05/19 18:11	11/06/19	CO
Total Coliform	19	1			MPN/100ml	11/05/19 18:11	11/06/19	CO

Matrix: Water	Client: Rincon Consultants - Ventura	Collector:
Sampled: 11/05/2019 11:00	Site:	
Sample #: <u>420981-004</u>	Client Sample #: MCWP-MW04S	Sample Type:

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed By	Notes
Method: ALCH 4024	Prep Method: None		QCBatchID:					
Total Organic Nitrogen	1.20	1	0.04	0.4	mg/L	11/08/19	SLL	
Method: ALCH 4025	Prep Method: None		QCBatchID:					
Total Nitrogen	2.61	1	0.03	0.4	mg/L	11/08/19	SLL	
Method: EPA 1664A	Prep Method: Method		QCBatchID: QC1208547					
Total Oil and Grease	ND	1.11	1.554	5.55	mg/L	11/07/19	11/07/19	EC
Method: EPA 200.7	Prep Method: EPA 200.7		QCBatchID: QC1208504					
Boron	1.60	1	0.03	0.05	mg/L	11/08/19	SBW	
Method: EPA 300.0	Prep Method: Method		QCBatchID: QC1208456					
Chloride	606	10	0.86	10	mg/L	11/05/19	11/06/19 01:50	JP
Nitrate + Nitrite, as Nitrogen	1.41	1	0.018	0.1	mg/L	11/05/19	11/06/19 01:50	JP
Nitrate, as Nitrogen	1.41	1	0.012	0.1	mg/L	11/05/19	11/06/19 00:33	JP
Nitrite, as Nitrogen	ND	1	0.018	0.1	mg/L	11/05/19	11/06/19 00:33	JP
Sulfate	2550	50	3.85	50	mg/L	11/05/19	11/06/19 11:30	JP
Method: EPA 351.2	Prep Method: Method		QCBatchID: QC1208561					
Total Kjeldahl Nitrogen	1.2	1	0.052	0.4	mg/L	11/07/19	11/08/19	TP
Method: SM 2120-B	Prep Method: Method		QCBatchID: QC1208448					
Color	ND	1	5	5	Color Unit	11/05/19	17:10	WW
Method: SM 2130-B	Prep Method: Method		QCBatchID: QC1208449					
Turbidity	5.0	1	0.074	0.1	NTU	11/05/19	17:10	WW
Method: SM 2150-B	Prep Method: Method		QCBatchID: QC1208539					
Odor Threshold	ND	1	1	1	T.O.N	11/05/19	17:10	WW
Method: SM 2540-C	Prep Method: Method		QCBatchID: QC1208584					
Total Dissolved Solids	5050	2	20	20	mg/L	11/08/19	11/09/19	TP
Method: SM 2540-D	Prep Method: SM 2540-D		QCBatchID: QC1208599					
Total Suspended Solids	3.1	1.11	0.555	0.555	mg/L	11/05/19	11/05/19	NP
Method: SM 4500-Cl	Prep Method: Method		QCBatchID: QC1208490					
Chlorine, Total Residual	ND	1	0.016	0.1	mg/L	11/06/19	16:51	WW T2
Method: SM 4500-H+B	Prep Method: Method		QCBatchID: QC1208550					
pH	7.30	1			SU	11/06/19 00:00	11/06/19 09:12	WW T2
Temp. at Time of pH Measurement	4.4	1			°C	11/06/19 00:00	11/06/19 09:12	WW
Method: SM 4500-NH3-G	Prep Method: Method		QCBatchID: QC1208472					
Ammonia, as Nitrogen	ND	1	0.01	0.1	mg/L	11/06/19	11/06/19	TP
Method: SM 4500-P-B-5-E	Prep Method: 4500-P-B-5		QCBatchID: QC1208705					
Total Phosphorous as P	0.320	1	0.01	0.02	mg/L	11/12/19	11/12/19	TP
Total Phosphorous as PO4	0.981	1	0.03	0.06	mg/L	11/12/19	11/12/19	TP
Method: SM 5210-B	Prep Method: Method/5day		QCBatchID: QC1208496					
BOD	ND	1	3	3	mg/L	11/06/19	11/06/19 09:12	WW BQ2
Method: SM 5310B	Prep Method: Method		QCBatchID: QC1208488					
Total Organic Carbon (TOC)	27.5	1	0.091	1	mg/L	11/06/19	11/06/19	TP
Method: SM 5540-C	Prep Method: Method		QCBatchID: QC1208557					
MBAS	0.15	1	0.027	0.04	mg/L	11/07/19 08:00	11/07/19 16:42	NP
Method: sm 9223-B-b	Prep Method: Method		QCBatchID: QC1208458					
Fecal Coliform	<1	1			MPN/100ml	11/05/19 18:11	11/06/19	CO
Total Coliform	25	1			MPN/100ml	11/05/19 18:11	11/06/19	CO

QC Batch ID: **QC1208448**

Analyst: Echavez

Method: SM 2120-B

Matrix: Water

Analyzed: 11/05/2019

Instrument: CHEM (group)

Duplicate Summary

Analyte	Sample Amount	Duplicate Amount	Units	RPD	Limits RPD	Notes
QC1208448DUP1						Source: 420969-001
Color	5	5	Color Unit	0.0	20	

QCBatchID: **QC1208449**

Analyst: Echavez

Method: SM 2130-B

Matrix: Water

Analyzed: 11/05/2019

Instrument: CHEM (group)

Duplicate Summary

Analyte	Sample Amount	Duplicate Amount	Units	RPD	Limits RPD	Notes
QC1208449DUP1						Source: 420969-001
Turbidity	8800	8600	NTU	2.3	20	

QCBatchID: QC1208456	Analyst: JParedes	Method: EPA 300.0
Matrix: Water	Analyzed: 11/05/2019	Instrument: AAICP (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1208456MB1					
Bromide	ND	mg/L	0.034	0.3	
Chloride	ND	mg/L	0.086	1	
Nitrate + Nitrite, as Nitrogen	ND	mg/L	0.018	0.44	
Nitrate, as Nitrogen	ND	mg/L	0.012	0.1	
Nitrate, as NO3	ND	mg/L	0.053	0.44	
Nitrite, as Nitrogen	ND	mg/L	0.018	0.1	
Sulfate	ND	mg/L	0.077	0.5	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount		Spike Result		Units	Recoveries			Limits		Notes
	LCS	LCSD	LCS	LCSD		LCS	LCSD	RPD	%Rec	RPD	
QC1208456LCS1											
Bromide	15		14.8		mg/L	99			90-110		
Chloride	100		107		mg/L	107			90-110		
Nitrate, as Nitrogen	9.03		9.46		mg/L	105			90-110		
Nitrate, as NO3	40		41.9		mg/L	105			90-110		
Nitrite, as Nitrogen	9.15		9.30		mg/L	102			90-110		
Sulfate	50		51.8		mg/L	104			90-110		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount		Spike Result		Units	Recoveries			Limits		Notes
		MS	MSD	MS	MSD		MS	MSD	RPD	%Rec	RPD	
QC1208456MS1, QC1208456MSD1												
Bromide	0.170	15	15	15.1	15.1	mg/L	100	100	0.0	80-120	20	
Chloride	77.7	100	100	169	170	mg/L	91	92	0.6	80-120	20	
Nitrate, as Nitrogen	ND	9.03	9.03	9.45	9.58	mg/L	105	106	1.4	80-120	20	
Nitrate, as NO3	ND	40	40	41.8	42.5	mg/L	105	106	1.7	80-120	20	
Nitrite, as Nitrogen	ND	9.15	9.15	8.66	8.75	mg/L	95	96	1.0	80-120	20	
Sulfate	15.3	50	50	65.8	66.0	mg/L	101	101	0.3	80-120	20	

QCBatchID: <u>QC1208472</u>	Analyst: Echavez	Method: SM 4500-NH3-G
Matrix: Water	Analyzed: 11/06/2019	Instrument: CHEM (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1208472MB1					
Ammonia, as Nitrogen	ND	mg/L	0.01	0.1	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount		Spike Result		Units	Recoveries			Limits		Notes
	LCS	LCSD	LCS	LCSD		LCS	LCSD	RPD	%Rec	RPD	
QC1208472LCS1											
Ammonia, as Nitrogen	2.5		2.56		mg/L	102			80-120		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount		Spike Result		Units	Recoveries			Limits		Notes
		MS	MSD	MS	MSD		MS	MSD	RPD	%Rec	RPD	
QC1208472MS1, QC1208472MSD1												
Ammonia, as Nitrogen	ND	2.5	2.5	2.57	2.54	mg/L	103	102	1.2	80-120	20	

QCBatchID: QC1208488	Analyst: trinh	Method: SM 5310B
Matrix: Water	Analyzed: 11/06/2019	Instrument: CHEM (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1208488MB1					
Total Organic Carbon (TOC)	ND	mg/L	0.091	1	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount		Spike Result		Units	Recoveries			Limits		Notes
	LCS	LCSD	LCS	LCSD		LCS	LCSD	RPD	%Rec	RPD	
QC1208488LCS1											
Total Organic Carbon (TOC)	10		9.44		mg/L	94			80-120		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount		Spike Result		Units	Recoveries			Limits		Notes
		MS	MSD	MS	MSD		MS	MSD	RPD	%Rec	RPD	
QC1208488MS1, QC1208488MSD1												
Total Organic Carbon (TOC)	14.0	20	20	33.2	34.2	mg/L	96	101	3.0	80-120	20	Source: 420789-002

QCBatchID: <u>QC1208490</u>	Analyst: npham	Method: SM 4500-Cl
Matrix: Water	Analyzed: 11/06/2019	Instrument: CHEM (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1208490MB1					
Chlorine, Total Residual	ND	mg/L	0.016	0.1	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount		Spike Result		Units	Recoveries			Limits		Notes
	LCS	LCSD	LCS	LCSD		LCS	LCSD	RPD	%Rec	RPD	
QC1208490LCS1											
Chlorine, Total Residual	1		0.94		mg/L	94				80-120	

Duplicate Summary

Analyte	Sample Amount		Duplicate Amount		Units	RPD	Limits RPD	Notes
QC1208490DUP1								
Chlorine, Total Residual	3.97		3.79		mg/L	4.6	20	Source: 421048-002

QC BatchID: QC1208496	Analyst: npham	Method: SM 5210-B
Matrix: Water	Analyzed: 11/06/2019	Instrument: CHEM (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1208496MB1					
BOD	ND	mg/L	3	3	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount		Spike Result		Units	Recoveries			Limits		Notes
	LCS	LCSD	LCS	LCSD		LCS	LCSD	RPD	%Rec	RPD	
QC1208496LCS1											
BOD	198		182		mg/L	92			84.6-115.4		

QC Batch ID: **QC1208504**

Analyst: rvenegas

Method: EPA 200.7

Matrix: Water

Analyzed: 11/07/2019

Instrument: AAICP (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1208504MB1					
Aluminum	ND	mg/L	0.033	0.05	
Arsenic	ND	mg/L	0.009	0.01	
Barium	ND	mg/L	0.002	0.01	
Boron	ND	mg/L	0.03	0.05	
Cadmium	ND	mg/L	0.002	0.005	
Chromium	ND	mg/L	0.002	0.01	
Copper	ND	mg/L	0.008	0.01	
Lead	ND	mg/L	0.007	0.01	
Manganese	ND	mg/L	0.006	0.01	
Nickel	ND	mg/L	0.004	0.01	
Potassium	ND	mg/L	0.167	0.5	
Silver	ND	mg/L	0.005	0.005	
Sodium	ND	mg/L	0.119	0.5	
Zinc	ND	mg/L	0.017	0.05	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount		Spike Result		Units	Recoveries			Limits		Notes
	LCS	LCSD	LCS	LCSD		LCS	LCSD	RPD	%Rec	RPD	
QC1208504LCS1											
Aluminum	2		2.03		mg/L	102			85-115		
Arsenic	2		1.81		mg/L	91			85-115		
Barium	2		1.91		mg/L	96			85-115		
Boron	2		1.84		mg/L	92			85-115		
Cadmium	2		1.86		mg/L	93			85-115		
Chromium	2		1.89		mg/L	95			85-115		
Copper	2		1.80		mg/L	90			85-115		
Lead	2		1.78		mg/L	89			85-115		
Manganese	2		2.03		mg/L	102			85-115		
Nickel	2		1.85		mg/L	93			85-115		
Potassium	38		35.9		mg/L	94			85-115		
Silver	1		0.916		mg/L	92			85-115		
Sodium	20		19.6		mg/L	98			85-115		
Zinc	2		1.99		mg/L	100			85-115		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount		Spike Result		Units	Recoveries			Limits		Notes
		MS	MSD	MS	MSD		MS	MSD	RPD	%Rec	RPD	
QC1208504MS1												
Source: 420955-001												
Aluminum	1.62	1		2.64		mg/L	102			75-125		
Arsenic	ND	1		1.11		mg/L	111			75-125		
Barium	0.026	1		0.970		mg/L	94			75-125		
Boron	7.10	1		8.46		mg/L	136			75-125		NC
Cadmium	0.158	1		1.11		mg/L	95			75-125		
Chromium	ND	1		0.908		mg/L	91			75-125		
Copper	ND	1		0.898		mg/L	90			75-125		
Lead	ND	1		0.979		mg/L	98			75-125		
Manganese	ND	1		0.970		mg/L	97			75-125		
Nickel	0.688	1		1.66		mg/L	97			75-125		
Potassium	3870	29		4220		mg/L	1207			75-125		NC
Silver	ND	1		0.955		mg/L	96			75-125		
Sodium	7760	20		7870		mg/L	550			75-125		NC
Zinc	0.431	1		1.52		mg/L	109			75-125		

QCBatchID: QC1208504**Analyst: rvenegas****Method: EPA 200.7****Matrix: Water****Analyzed: 11/07/2019****Instrument: AAICP (group)**

Analyte	Sample Amount	Spike Amount		Spike Result		Units	Recoveries			Limits		Notes
		MS	MSD	MS	MSD		MS	MSD	RPD	%Rec	RPD	
QC1208504MS2							Source: 421053-002					
Aluminum	2.70	1		3.55		mg/L	85				75-125	
Arsenic	ND	1		0.948		mg/L	95				75-125	
Barium	0.069	1		0.953		mg/L	88				75-125	
Boron	0.333	1		1.22		mg/L	89				75-125	
Cadmium	ND	1		0.830		mg/L	83				75-125	
Chromium	0.010	1		0.880		mg/L	87				75-125	
Copper	ND	1		0.863		mg/L	86				75-125	
Lead	ND	1		0.834		mg/L	83				75-125	
Manganese	0.505	1		1.48		mg/L	98				75-125	
Nickel	0.009	1		0.842		mg/L	83				75-125	
Potassium	5.66	29		31.7		mg/L	90				75-125	
Silver	ND	1		0.864		mg/L	86				75-125	
Sodium	213	20		208		mg/L	0				75-125	NC
Zinc	0.023	1		0.895		mg/L	87				75-125	

QCBatchID: **QC1208539**

Analyst: npham

Method: SM 2150-B

Matrix: Water

Analyzed: 11/05/2019

Instrument: CHEM (group)

Duplicate Summary

Analyte	Sample Amount	Duplicate Amount	Units	RPD	Limits RPD	Notes
QC1208539DUP1						Source: 420981-004
Odor Threshold	ND	ND	T.O.N	0.0	20	

QCBatchID: <u>QC1208547</u>	Analyst: Echavez	Method: EPA 1664A
Matrix: Water	Analyzed: 11/07/2019	Instrument: CHEM (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1208547MB1					
Total Oil and Grease	ND	mg/L	1.4	5	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount		Spike Result		Units	Recoveries			Limits		Notes
	LCS	LCSD	LCS	LCSD		LCS	LCSD	RPD	%Rec	RPD	
QC1208547LCS1, QC1208547LCSD1											
Total Oil and Grease	40	40	35.7	37.0	mg/L	89	93	4	78-114	18	

QC Batch ID: **QC1208550**

Analyst: npham

Method: SM 4500-H+B

Matrix: Water

Analyzed: 11/06/2019

Instrument: CHEM (group)

Duplicate Summary

Analyte	Sample Amount	Duplicate Amount	Units	RPD	Limits RPD	Notes
QC1208550DUP1						Source: 420981-004
pH	7.30	7.31	SU	0.1	20	
Temp. at Time of pH Measurement	4.4	4.5	°C	2.2	20	

QCBatchID: <u>QC1208557</u>	Analyst: npham	Method: SM 5540-C
Matrix: Water	Analyzed: 11/07/2019	Instrument: CHEM (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1208557MB1					
MBAS	ND	mg/L	0.027	0.04	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount		Spike Result		Units	Recoveries			Limits		Notes
	LCS	LCSD	LCS	LCSD		LCS	LCSD	RPD	%Rec	RPD	
QC1208557LCS1											
MBAS	1		1.1		mg/L	110			80-120		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount		Spike Result		Units	Recoveries			Limits		Notes
		MS	MSD	MS	MSD		MS	MSD	RPD	%Rec	RPD	
QC1208557MS1, QC1208557MSD1												
MBAS	ND	1	1	1.0	1.0	mg/L	100	100	0.0	75-125	20	

QCBatchID: <u>QC1208561</u>	Analyst: trinh	Method: EPA 351.2
Matrix: Water	Analyzed: 11/08/2019	Instrument: CHEM (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1208561MB1					
Total Kjeldahl Nitrogen	ND	mg/L	0.052	0.4	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount		Spike Result		Units	Recoveries			Limits		Notes
	LCS	LCSD	LCS	LCSD		LCS	LCSD	RPD	%Rec	RPD	
QC1208561LCS1											
Total Kjeldahl Nitrogen	2.5		2.6		mg/L	104			80-120		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount		Spike Result		Units	Recoveries			Limits		Notes
		MS	MSD	MS	MSD		MS	MSD	RPD	%Rec	RPD	
QC1208561MS1, QC1208561MSD1												
Total Kjeldahl Nitrogen	1.3	12.5	12.5	13	14	mg/L	94	102	7.4	80-120	20	Source: 420909-001

QCBatchID: <u>QC1208584</u>	Analyst: npham	Method: SM 2540-C
Matrix: Water	Analyzed: 11/09/2019	Instrument: CHEM (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1208584MB1					
Total Dissolved Solids	ND	mg/L	10	10	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount		Spike Result		Units	Recoveries			Limits		Notes
	LCS	LCSD	LCS	LCSD		LCS	LCSD	RPD	%Rec	RPD	
QC1208584LCS1											
Total Dissolved Solids	95		97.0		mg/L	102			90-110		

Duplicate Summary

Analyte	Sample Amount	Duplicate Amount	Units	RPD	Limits RPD	Notes
QC1208584DUP1						
Total Dissolved Solids	5050	5040	mg/L	0.2	5	Source: 420981-004

QCBatchID: <u>QC1208599</u>	Analyst: npham	Method: SM 2540-D
Matrix: Water	Analyzed: 11/05/2019	Instrument: CHEM (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1208599MB1					
Total Suspended Solids	ND	mg/L	0.5	0.5	

Duplicate Summary

Analyte	Sample Amount	Duplicate Amount	Units	RPD	Limits RPD	Notes
QC1208599DUP1						Source: 420981-002
Total Suspended Solids	327	314	mg/L	4.1	5	

QCBatchID: QC1208705	Analyst: trinh	Method: SM 4500-P-B-5-E
Matrix: Water	Analyzed: 11/12/2019	Instrument: CHEM (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1208705MB1					
Total Phosphorous as P	ND	mg/L	0.01	0.02	
Total Phosphorous as PO4	ND	mg/L	0.03	0.06	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount		Spike Result		Units	Recoveries			Limits		Notes
	LCS	LCSD	LCS	LCSD		LCS	LCSD	RPD	%Rec	RPD	
QC1208705LCS1											
Total Phosphorous as P	0.4		0.362		mg/L	91			80-120		
Total Phosphorous as PO4	1.23		1.110		mg/L	90			80-120		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount		Spike Result		Units	Recoveries			Limits		Notes
		MS	MSD	MS	MSD		MS	MSD	RPD	%Rec	RPD	
QC1208705MS1, QC1208705MSD1												
Total Phosphorous as P	0.032	0.4	0.4	0.453	0.455	mg/L	105	106	0.4	75-125	20	
Total Phosphorous as PO4	0.098	1.23	1.23	1.389	1.395	mg/L	105	105	0.4	75-125	20	

Source: 420981-003

Data Qualifiers and Definitions

Qualifiers

A	See Report Comments.
B	Analyte was present in an associated method blank.
B1	Analyte was present in a sample and associated method blank greater than MDL but less than RDL.
BQ1	No valid test replicates. Sample Toxicity is possible. Best result was reported.
BQ2	No valid test replicates.
BQ3	No valid test replicates. Final DO is less than 1.0 mg/L. Result may be greater.
BQ4	Minor Dissolved Oxygen loss was observed in the blank water check, however, the LCS was within criteria, validating the batch.
BQ5	Minor Dissolved Oxygen loss was observed in the blank water check.
C	Possible laboratory contamination.
D	RPD was not within control limits. The sample data was reported without further clarification.
D1	Lesser amount of sample was used due to insufficient amount of sample supplied.
D2	Reporting limit is elevated due to sample matrix. Target analyte was not detected above the elevated reporting limit.
D3	Insufficient sample was supplied for TCLP. Client was notified. TCLP was performed per the Client's instructions.
DW	Sample result is calculated on a dry weigh basis.
E	Concentration is estimated because it exceeds the quantification limits of the method.
I	The sample was read outside of the method required incubation period.
IR	Inconclusive Result. Legionella is present, however, there is possible non-specific agglutination preventing specific identification.
J	Reported value is estimated
L	The laboratory control sample (LCS) or laboratory control sample duplicate (LCSD) was out of control limits. Associated sample data was reported with qualifier.
L2	LCS did not meet recovery criteria, however, the MS and/or MSD met LCS recovery criteria, validating the batch.
M	The matrix spike (MS) or matrix spike duplicate (MSD) was not within control limits due to matrix interference. The associated LCS and/or LCSD was within control limits and the sample data was reported without further clarification.
M1	The matrix spike (MS) or matrix spike duplicate (MSD) is not within control limits due to matrix interference.
M2	The matrix spike (MS) or matrix spike duplicate (MSD) was not within control limits. The associated LCS and/or LCSD was not within control limits. Sample result is estimated.
N1	Sample chromatography does not match the specified TPH standard pattern.
NC	The analyte concentration in the sample exceeded the spike level by a factor of four or greater, spike recovery and limits do not apply.
P	Sample was received without proper preservation according to EPA guidelines.
P1	Temperature of sample storage refrigerator was out of acceptance limits.
P2	The sample was preserved within 24 hours of collection in accordance with EPA 218.6.
P3	Per Client request, sample was composited for volatile analysis. Sample compositing for volatile analysis is not recommended due to potential loss of target analytes. Results may be biased low.
Q1	Analyte Calibration Verification exceeds criteria. The result is estimated.
Q2	Analyte calibration was not verified and the result was estimated.
Q3	Analyte initial calibration was not available or exceeds criteria. The result was estimated.
S	The surrogate recovery was out of control limits due to matrix interference. The associated method blank surrogate recovery was within control limits and the sample data was reported without further clarification.
S1	The associated surrogate recovery was out of control limits; result is estimated.
S2	The surrogate was diluted out due to the presence of high concentrations of target and/or non-target compounds. Surrogate recoveries in the associated batch QC met recovery criteria.
S3	Internal Standard did not meet recovery limits. Analyte concentration is estimated.
T	Sample was extracted/analyzed past the holding time.
T1	Reanalysis was reported past hold time due to failing replicates in the original analysis (BOD only).
T2	Sample was analyzed ASAP but received and analyzed past the 15 minute holding time.
T3	Sample received and analyzed out of hold time per client's request.
T4	Sample was analyzed out of hold time per client's request.
T5	Reanalysis was reported past hold time. The original analysis was within hold time, but not reportable.
T6	Hold time is indeterminable due to unspecified sampling time.
T7	Sample was analyzed past hold time due to insufficient time remaining at time of receipt.

Definitions

DF	Dilution Factor
MDL	Method Detection Limit. Result is reported ND when it is less than or equal to MDL.
ND	Analyte was not detected or was less than the detection limit.
NR	Not Reported. See Report Comments.
RDL	Reporting Detection Limit
TIC	Tentatively Identified Compounds

ENTHALPY ANALYTICAL, INC.
 931 W. Barkley Ave., Orange, CA 92868
 Phone: (714) 771-6900 Fax: (714) 538-1209

Billing: Enthalpy - SoCal
 c/o Montrose Environmental Group
 1 Park Plaza, Suite 1000, Irvine, CA 92614



Chain of Custody Record
 Lab No: 41018
 Page: 1 of 3

Turn Around Time (Rush by advanced notice only)
 Standard: X 4 Day: 3 Day:
 1 Day: Same Day:

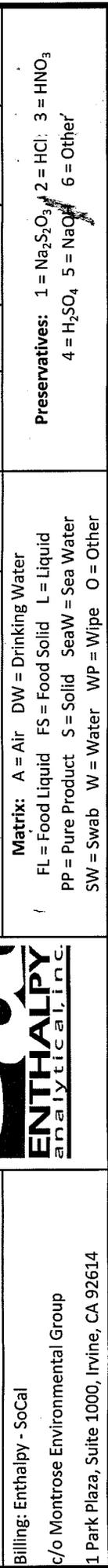
Matrix: A = Air DW = Drinking Water
 FL = Food Liquid FS = Food Solid L = Liquid
 PP = Pure Product S = Solid SeaW = Sea Water
 SW = Swab W = Water WP = Wipe O = Other

Preservatives: 1 = Na₂S₂O₃ 2 = HCl 3 = HNO₃
 4 = H₂SO₄ 5 = NaOH 6 = Other

CUSTOMER INFORMATION		PROJECT INFORMATION				Analysis Request							Test Instructions / Comments		
Company:	Rincon Consultants	Name:	Mailbu - Annual												
Report To:	Kierman Brialik	Number:													
Email:	Kbtrialik@rinconconsultants.com	P.O. #:	15-01587												
Address:	180 N. Ashwood Ave.	Address:													
Phone:	Ventura, CA 93003	Global ID:													
Cell:		Sampled By:	MICHELLE CARTER												
Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Total / Fecal Coliforms - SM 9223 Quantitray	EPA 200.7 (B), 200.8 (see list), 245.1 (Hg)	EPA 300.0: Cl, F1, NO2, NO3, SO4; EPA 314.0	SM 4500-CN E; TKN, NH3; Phosphorus	SM 5310C TOC; BOD; TSS; TDS	pH, Residual Cl; MBAS; Turbidity; Color; Odor	SM 2330B Corrosivity; EPA 218.6 Cr VI	EPA 1664A Oil & Grease; EPA 1625M NDMA	EPA 1613 TCDD only; EPA 608 LL; EPA 625 LL	EPA 524.2 VOCs; EPA 624 VOCs
LAMW-5S	11/5/19	1015	W			X	X	X	X	X	X	X	X	X	X
SMBRP-9	11/5/19	0945	W			X	X	X	X	X	X	X	X	X	X
SMBRP-11	11/5/19	1145	W			X	X	X	X	X	X	X	X	X	X
SMBRP-12						X	X	X	X	X	X	X	X	X	X
MCWP-MW045	11/5/19	1100	W			X	X	X	X	X	X	X	X	X	X
MCWP-MW040						X	X	X	X	X	X	X	X	X	X
MCWP-MW075						X	X	X	X	X	X	X	X	X	X
MCWP-MW070						X	X	X	X	X	X	X	X	X	X
MCWP-MW09						X	X	X	X	X	X	X	X	X	X

Signature: [Signature] Print Name: MICHELLE CARTER
 Relinquished By: [Signature] Date / Time: 11/5/19 / 13:48
 Received By: [Signature] Date / Time: 11/5/19 / 13:52
 Relinquished By: [Signature] Date / Time: 11/5/19 / 19:00
 Received By: [Signature] Date / Time: 11/5/19 / 19:00

ENTHALPHY ANALYTICAL, INC.
 931 W. Barkley Ave., Orange, CA 92868
 Phone: (714) 771-6900 Fax: (714) 538-1209
 Billing: Enthalpy - SoCal
 c/o Montrose Environmental Group
 1 Park Plaza, Suite 1000, Irvine, CA 92614



Chain of Custody Record
 Lab No: _____ Standard: _____ X _____ 4 Day: _____ 3 Day: _____
 Page: 2 of 3 2 Day: _____ 1 Day: _____ Same Day: _____
 Matrix: A = Air DW = Drinking Water
 FL = Food Liquid FS = Food Solid L = Liquid
 PP = Pure Product S = Solid SeaW = Sea Water
 SW = Swab W = Water WP = Wipe O = Other
 Preservatives: 1 = Na₂S₂O₃ 2 = HCl 3 = HNO₃
 4 = H₂SO₄ 5 = NaOH 6 = Other

Turn Around Time (Rush by advanced notice only)
 Standard: _____ X _____ 4 Day: _____ 3 Day: _____
 Page: 2 of 3 2 Day: _____ 1 Day: _____ Same Day: _____

PROJECT INFORMATION
 Name: Malibu - Annual
 Number: _____
 P.O. #: _____
 Address: _____
 Global ID: _____
 Sampled By: _____

Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.
LAMW-55	11/5/19	1015	W		
SMBRP-9	11/5/19	0945	W		
SMBRP-11	11/5/19	1145	W		
SMBRP-12					
MCWP-MW04S	11/5/19	1100	W		
MCWP-MW04D					
MCWP-MW07S					
MCWP-MW07D					
MCWP-MW09					

Signature	Print Name	Company / Title	Date / Time
	Michelle Carter	RINCON CONSULTANTS INC	11/5/19 / 1348
	Henri Gutierrez	EA	11/5/19 / 13:50
	Henri Gutierrez	EA	11/5/19 / 19:00
	B. Kim	EA	11/5/19 / 1450

Analysis Request	Test Instructions / Comments
EPA 100.2 Asbestos; EPA 908.0 Uranium	
EPA 900.0 Gross Alpha & Beta	
EPA 903.0 Radium 226, Radium 228	
EPA 905.0 Strontium-90; EPA 906.0 Tritium	
EPA 504.1 EDB, DBCP; EPA 525.2 (see list)	
EPA 515.3 Chlorinated Herbicides	
EPA 300.1B Bromate, Chlorite	
EPA 531.1 Carbofuran, Oxamyl	
EPA 548.1 Endothal; EPA 549.2 Diquat	
EPA 547 Glyphosate; EPA 552.2 HAAs	

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1 Park Plaza, Suite 1000, Irvine, CA 92614



Chain of Custody Record

Lab No: _____ Standard: 4 Day: _____ 3 Day: _____

Page: 3 of 3 2 Day: _____ 1 Day: _____ Same Day: _____

Matrix: A = Air DW = Drinking Water
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4 = H₂SO₄ 5 = NaOH 6 = Other

CUSTOMER INFORMATION		PROJECT INFORMATION				Analysis Request		Test Instructions / Comments	
Company:	Rincon Consultants	Name:	Mailbu - Annual						
Report To:	Kiernan Britalik	Number:							
Email:		P.O. #:							
Address:	180 N. Ashwood Ave.	Address:							
Phone:	Ventura, CA 93003	Global ID:							
Cell:		Sampled By:							
Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	EPA 1694M-ESI+/ESI-/APCI (see list)	EPA 608 Pest/PCBS		
LAMW-5S	11/5/19	1015	W			X	X		
SMBRP-9	11/5/19	0945	W			X	X		
SMBRP-11	11/5/19	1145	W			X	X		
SMBRP-12						X	X		MC
MCWP-MW045	11/5/19	1100	W			X	X		MC
MCWP-MW040						X	X		MC
MCWP-MW075						X	X		MC
MCWP-MW070						X	X		MC
MCWP-MW09						X	X		MC

Signature	Print Name	Company / Title	Date / Time
	Michelle Carter	RINCON CONSULTANTS, INC	11/5/19 / 1348
	Henri Gutierrez	EA	11/5/19 / 13:50
	Henri Gutierrez	EA	11/5/19 / 19:00
	GKM	EA	11/5/19 / 1900

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ENTHALPY ANALYTICAL

SAMPLE ACCEPTANCE CHECKLIST

Section 1
 Client: Rincon Consultant Project: Malibu Quarterly
 Date Received: 11/5/19 Sampler's Name Present: Yes No

Section 2
 Sample(s) received in a cooler? Yes, How many? 1 No (skip section 2) Sample Temp (°C) (No Cooler): _____
 Sample Temp (°C), One from each cooler: #1: 5.6 #2: _____ #3: _____ #4: _____
(Acceptance range is < 6°C but not frozen (for Microbiology samples, acceptance range is < 10°C but not frozen). It is acceptable for samples collected the same day as sample receipt to have a higher temperature as long as there is evidence that cooling has begun.)
 Shipping Information: _____

Section 3
 Was the cooler packed with: Ice Ice Packs Bubble Wrap Styrofoam
 Paper None Other _____
 Cooler Temp (°C): #1: 12 #2: _____ #3: _____ #4: _____

Section 4	YES	NO	N/A
Was a COC received?	✓		✓
Are sample IDs present?	✓		
Are sampling dates & times present?	✓		
Is a relinquished signature present?	✓		
Are the tests required clearly indicated on the COC?	✓		
Are custody seals present?		✓	
If custody seals are present, were they intact?			✓
Are all samples sealed in plastic bags? (Recommended for Microbiology samples)	✓		
Did all samples arrive intact? If no, indicate in Section 4 below.	✓		
Did all-bottle labels agree with COC? (ID, dates and times)	✓		
Were the samples collected in the correct containers for the required tests?	✓		
Are the containers labeled with the correct preservatives?	✓		
Is there headspace in the VOA vials greater than 5-6 mm in diameter?			✓
Was a sufficient amount of sample submitted for the requested tests?	✓		

Section 5 Explanations/Comments
 The COC is the incorrect project.

Section 6
 For discrepancies, how was the Project Manager notified? Verbal PM Initials: _____ Date/Time _____
 Email (email sent to/on): _____ / _____
 Project Manager's response: _____

Completed By: [Signature] Date: 11/5/19



Enthalpy Analytical, LLC

931 W. Barkley Ave - Orange, CA 92868
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www.enthalpy.com
info-sc@enthalpy.com



Client: Rincon Consultants - Ventura
Address: 180 North Ashwood Ave.
Ventura, CA 93003

Lab Request: 421045
Report Date: 11/14/2019
Date Received: 11/06/2019
Client ID: 15888

Attn: Kiernan Brtalik

Comments: Malibu-Quarterly
PO# 15-01587

This laboratory request covers the following listed samples which were analyzed for the parameters indicated on the attached Analytical Result Report. All analyses were conducted using the appropriate methods. Methods accredited by NELAC are indicated on the report. This cover letter is an integral part of the final report.

Sample # Client Sample ID

421045-001 N-001
421045-002 N-002
421045-003 N-003
421045-004 N-004
421045-005 L-001
421045-006 L-002
421045-007 L-003
421045-008 L-004
421045-009 L-005
421045-010 L-006

Thank you for the opportunity to be of service to your company. Please feel free to call if there are any questions regarding this report or if we can be of further service.

Report Review performed by: Ranjit Clarke, Project Manager

NOTE: Unless notified in writing, all samples will be discarded by appropriate disposal protocol 45 days from date received.

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Matrix: Water	Client: Rincon Consultants - Ventura	Collector: Client
Sampled: 11/06/2019 12:22	Site:	
Sample #: <u>421045-001</u>	Client Sample #: N-001	Sample Type:

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed By	Notes
Method: ALCH 4024 Prep Method: None							QCBatchID:	
Total Organic Nitrogen	0.06 J	1	0.04	0.5	mg/L		11/14/19 SLL	J
Method: ALCH 4025 Prep Method: None							QCBatchID:	
Total Nitrogen	0.056 J	1	0.03	0.5	mg/L		11/14/19 SLL	J
Method: EPA 300.0 Prep Method: Method							QCBatchID: QC1208656	
Nitrate, as Nitrogen	ND	1	0.012	0.1	mg/L	11/06/19	11/07/19 02:59 JP	
Nitrite, as Nitrogen	ND	50	0.9	5	mg/L	11/06/19	11/07/19 21:06 JP	D2
Method: EPA 351.2 Prep Method: Method							QCBatchID: QC1208561	
Total Kjeldahl Nitrogen	0.056 J	1	0.052	0.4	mg/L	11/07/19	11/08/19 TP	J
Method: SM 4500-NH3-G Prep Method: Method							QCBatchID: QC1208711	
Ammonia, as Nitrogen	ND	1	0.01	0.1	mg/L	11/12/19	11/13/19 TP	
Method: SM 4500-P-B-5-E Prep Method: 4500-P-B-5							QCBatchID: QC1208706	
Total Phosphorous as P	0.039	1	0.01	0.02	mg/L	11/12/19	11/12/19 TP	
Total Phosphorous as PO4	0.120	1	0.03	0.06	mg/L	11/12/19	11/12/19 TP	
Method: sm 9223-B-b Prep Method: Method							QCBatchID: QC1208491	
Fecal Coliform	<1	1			MPN/100ml	11/06/19 17:38	11/07/19 LL	
Total Coliform	2000	1			MPN/100ml	11/06/19 17:38	11/07/19 LL	

Matrix: Water	Client: Rincon Consultants - Ventura	Collector: Client
Sampled: 11/06/2019 12:35	Site:	
Sample #: <u>421045-002</u>	Client Sample #: N-002	Sample Type:

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed By	Notes
Method: ALCH 4024 Prep Method: None							QCBatchID:	
Total Organic Nitrogen	0.12 J	1	0.04	0.5	mg/L		11/14/19 SLL	J
Method: ALCH 4025 Prep Method: None							QCBatchID:	
Total Nitrogen	0.124 J	1	0.03	0.5	mg/L		11/14/19 SLL	J
Method: EPA 300.0 Prep Method: Method							QCBatchID: QC1208656	
Nitrate, as Nitrogen	ND	1	0.012	0.1	mg/L	11/06/19	11/07/19 03:18 JP	
Nitrite, as Nitrogen	ND	50	0.9	5	mg/L	11/06/19	11/07/19 21:25 JP	D2
Method: EPA 351.2 Prep Method: Method							QCBatchID: QC1208561	
Total Kjeldahl Nitrogen	0.124 J	1	0.052	0.4	mg/L	11/07/19	11/08/19 TP	J
Method: SM 4500-NH3-G Prep Method: Method							QCBatchID: QC1208711	
Ammonia, as Nitrogen	ND	1	0.01	0.1	mg/L	11/12/19	11/13/19 TP	
Method: SM 4500-P-B-5-E Prep Method: 4500-P-B-5							QCBatchID: QC1208706	
Total Phosphorous as P	0.024	1	0.01	0.02	mg/L	11/12/19	11/12/19 TP	
Total Phosphorous as PO4	0.074	1	0.03	0.06	mg/L	11/12/19	11/12/19 TP	
Method: sm 9223-B-b Prep Method: Method							QCBatchID: QC1208491	
Fecal Coliform	<1	1			MPN/100ml	11/06/19 17:38	11/07/19 LL	
Total Coliform	2000	1			MPN/100ml	11/06/19 17:38	11/07/19 LL	

Matrix: Water	Client: Rincon Consultants - Ventura	Collector: Client
Sampled: 11/06/2019 11:47	Site:	
Sample #: <u>421045-003</u>	Client Sample #: N-003	Sample Type:

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed By	Notes
Method: ALCH 4024	Prep Method: None		QCBatchID:					
Total Organic Nitrogen	ND	1	0.04	0.5	mg/L		11/14/19	SLL
Method: ALCH 4025	Prep Method: None		QCBatchID:					
Total Nitrogen	ND	1	0.03	0.5	mg/L		11/14/19	SLL
Method: EPA 300.0	Prep Method: Method		QCBatchID: QC1208656					
Nitrate, as Nitrogen	ND	1	0.012	0.1	mg/L	11/06/19	11/07/19 04:15	JP
Nitrite, as Nitrogen	ND	50	0.9	5	mg/L	11/06/19	11/07/19 21:44	JP D2
Method: EPA 351.2	Prep Method: Method		QCBatchID: QC1208792					
Total Kjeldahl Nitrogen	ND	1	0.052	0.4	mg/L	11/13/19	11/14/19	TP
Method: SM 4500-NH3-G	Prep Method: Method		QCBatchID: QC1208711					
Ammonia, as Nitrogen	ND	1	0.01	0.1	mg/L	11/12/19	11/13/19	TP
Method: SM 4500-P-B-5-E	Prep Method: 4500-P-B-5		QCBatchID: QC1208706					
Total Phosphorous as P	0.068	1	0.01	0.02	mg/L	11/12/19	11/12/19	TP
Total Phosphorous as PO4	0.208	1	0.03	0.06	mg/L	11/12/19	11/12/19	TP
Method: sm 9223-B-b	Prep Method: Method		QCBatchID: QC1208491					
Fecal Coliform	32	1			MPN/100ml	11/06/19 17:38	11/07/19	LL
Total Coliform	>2400	1			MPN/100ml	11/06/19 17:38	11/07/19	LL

Matrix: Water	Client: Rincon Consultants - Ventura	Collector: Client
Sampled: 11/06/2019 13:15	Site:	
Sample #: <u>421045-004</u>	Client Sample #: N-004	Sample Type:

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed By	Notes
Method: ALCH 4024	Prep Method: None		QCBatchID:					
Total Organic Nitrogen	ND	1	0.04	0.5	mg/L		11/14/19	SLL
Method: ALCH 4025	Prep Method: None		QCBatchID:					
Total Nitrogen	ND	1	0.03	0.5	mg/L		11/14/19	SLL
Method: EPA 300.0	Prep Method: Method		QCBatchID: QC1208656					
Nitrate, as Nitrogen	ND	1	0.012	0.1	mg/L	11/06/19	11/07/19 04:34	JP
Nitrite, as Nitrogen	ND	50	0.9	5	mg/L	11/06/19	11/07/19 22:03	JP D2
Method: EPA 351.2	Prep Method: Method		QCBatchID: QC1208789					
Total Kjeldahl Nitrogen	ND	1	0.052	0.4	mg/L	11/13/19	11/14/19	TP
Method: SM 4500-NH3-G	Prep Method: Method		QCBatchID: QC1208711					
Ammonia, as Nitrogen	ND	1	0.01	0.1	mg/L	11/12/19	11/13/19	TP
Method: SM 4500-P-B-5-E	Prep Method: 4500-P-B-5		QCBatchID: QC1208706					
Total Phosphorous as P	0.022	1	0.01	0.02	mg/L	11/12/19	11/12/19	TP
Total Phosphorous as PO4	0.068	1	0.03	0.06	mg/L	11/12/19	11/12/19	TP
Method: sm 9223-B-b	Prep Method: Method		QCBatchID: QC1208491					
Fecal Coliform	<1	1			MPN/100ml	11/06/19 17:38	11/07/19	LL
Total Coliform	2000	1			MPN/100ml	11/06/19 17:38	11/07/19	LL

Matrix: Water	Client: Rincon Consultants - Ventura	Collector: Client
Sampled: 11/06/2019 09:55	Site:	
Sample #: <u>421045-005</u>	Client Sample #: L-001	Sample Type:

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed By	Notes
Method: ALCH 4024	Prep Method: None		QCBatchID:					
Total Organic Nitrogen	0.58	1	0.04	0.5	mg/L		11/14/19	SLL
Method: ALCH 4025	Prep Method: None		QCBatchID:					
Total Nitrogen	0.582	1	0.03	0.5	mg/L		11/14/19	SLL
Method: EPA 300.0	Prep Method: Method		QCBatchID: QC1208656					
Nitrate, as Nitrogen	ND	1	0.012	0.1	mg/L	11/06/19	11/07/19 04:53	JP
Nitrite, as Nitrogen	ND	10	0.18	1	mg/L	11/06/19	11/07/19 22:22	JP D2
Method: EPA 351.2	Prep Method: Method		QCBatchID: QC1208789					
Total Kjeldahl Nitrogen	0.582	1	0.052	0.4	mg/L	11/13/19	11/14/19	TP
Method: SM 4500-NH3-G	Prep Method: Method		QCBatchID: QC1208711					
Ammonia, as Nitrogen	ND	1	0.01	0.1	mg/L	11/12/19	11/13/19	TP
Method: SM 4500-P-B-5-E	Prep Method: 4500-P-B-5		QCBatchID: QC1208706					
Total Phosphorous as P	0.132	1	0.01	0.02	mg/L	11/12/19	11/12/19	TP
Total Phosphorous as PO4	0.405	1	0.03	0.06	mg/L	11/12/19	11/12/19	TP
Method: sm 9223-B-b	Prep Method: Method		QCBatchID: QC1208491					
Fecal Coliform	100	1			MPN/100ml	11/06/19 17:38	11/07/19	LL
Total Coliform	>2400	1			MPN/100ml	11/06/19 17:38	11/07/19	LL

Matrix: Water	Client: Rincon Consultants - Ventura	Collector: Client
Sampled: 11/06/2019 10:35	Site:	
Sample #: <u>421045-006</u>	Client Sample #: L-002	Sample Type:

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed By	Notes
Method: ALCH 4024	Prep Method: None		QCBatchID:					
Total Organic Nitrogen	0.50	1	0.04	0.5	mg/L		11/14/19	SLL
Method: ALCH 4025	Prep Method: None		QCBatchID:					
Total Nitrogen	0.628	1	0.03	0.5	mg/L		11/14/19	SLL
Method: EPA 300.0	Prep Method: Method		QCBatchID: QC1208656					
Nitrate, as Nitrogen	0.13	1	0.012	0.1	mg/L	11/06/19	11/07/19 05:12	JP
Nitrite, as Nitrogen	ND	10	0.18	1	mg/L	11/06/19	11/07/19 22:41	JP D2
Method: EPA 351.2	Prep Method: Method		QCBatchID: QC1208789					
Total Kjeldahl Nitrogen	0.498	1	0.052	0.4	mg/L	11/13/19	11/14/19	TP
Method: SM 4500-NH3-G	Prep Method: Method		QCBatchID: QC1208711					
Ammonia, as Nitrogen	ND	1	0.01	0.1	mg/L	11/12/19	11/13/19	TP
Method: SM 4500-P-B-5-E	Prep Method: 4500-P-B-5		QCBatchID: QC1208706					
Total Phosphorous as P	0.121	1	0.01	0.02	mg/L	11/12/19	11/12/19	TP
Total Phosphorous as PO4	0.371	1	0.03	0.06	mg/L	11/12/19	11/12/19	TP
Method: sm 9223-B-b	Prep Method: Method		QCBatchID: QC1208491					
Fecal Coliform	230	1			MPN/100ml	11/06/19 17:38	11/07/19	LL
Total Coliform	>2400	1			MPN/100ml	11/06/19 17:38	11/07/19	LL

Matrix: Water	Client: Rincon Consultants - Ventura	Collector: Client
Sampled: 11/06/2019 10:13	Site:	
Sample #: <u>421045-007</u>	Client Sample #: L-003	Sample Type:

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed By	Notes
Method: ALCH 4024 Prep Method: None							QCBatchID:	
Total Organic Nitrogen	0.69	1	0.04	0.5	mg/L		11/14/19	SLL
Method: ALCH 4025 Prep Method: None							QCBatchID:	
Total Nitrogen	0.692	1	0.03	0.5	mg/L		11/14/19	SLL
Method: EPA 300.0 Prep Method: Method							QCBatchID: QC1208656	
Nitrate, as Nitrogen	ND	1	0.012	0.1	mg/L	11/06/19	11/07/19 05:31	JP
Nitrite, as Nitrogen	ND	10	0.18	1	mg/L	11/06/19	11/07/19 23:00	JP D2
Method: EPA 351.2 Prep Method: Method							QCBatchID: QC1208789	
Total Kjeldahl Nitrogen	0.692	1	0.052	0.4	mg/L	11/13/19	11/14/19	TP
Method: SM 4500-NH3-G Prep Method: Method							QCBatchID: QC1208711	
Ammonia, as Nitrogen	ND	1	0.01	0.1	mg/L	11/12/19	11/13/19	TP
Method: SM 4500-P-B-5-E Prep Method: 4500-P-B-5							QCBatchID: QC1208706	
Total Phosphorous as P	0.108	1	0.01	0.02	mg/L	11/12/19	11/12/19	TP
Total Phosphorous as PO4	0.331	1	0.03	0.06	mg/L	11/12/19	11/12/19	TP
Method: sm 9223-B-b Prep Method: Method							QCBatchID: QC1208491	
Fecal Coliform	520	1			MPN/100ml	11/06/19 17:38	11/07/19	LL
Total Coliform	>2400	1			MPN/100ml	11/06/19 17:38	11/07/19	LL

Matrix: Water	Client: Rincon Consultants - Ventura	Collector: Client
Sampled: 11/06/2019 10:57	Site:	
Sample #: <u>421045-008</u>	Client Sample #: L-004	Sample Type:

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed By	Notes
Method: ALCH 4024 Prep Method: None							QCBatchID:	
Total Organic Nitrogen	1.22	1	0.04	0.5	mg/L		11/14/19	SLL
Method: ALCH 4025 Prep Method: None							QCBatchID:	
Total Nitrogen	1.22	1	0.03	0.5	mg/L		11/14/19	SLL
Method: EPA 300.0 Prep Method: Method							QCBatchID: QC1208656	
Nitrate, as Nitrogen	ND	1	0.012	0.1	mg/L	11/06/19	11/07/19 05:50	JP
Nitrite, as Nitrogen	ND	10	0.18	1	mg/L	11/06/19	11/07/19 23:19	JP D2
Method: EPA 351.2 Prep Method: Method							QCBatchID: QC1208789	
Total Kjeldahl Nitrogen	1.2	1	0.052	0.4	mg/L	11/13/19	11/14/19	TP
Method: SM 4500-NH3-G Prep Method: Method							QCBatchID: QC1208711	
Ammonia, as Nitrogen	ND	1	0.01	0.1	mg/L	11/12/19	11/13/19	TP
Method: SM 4500-P-B-5-E Prep Method: 4500-P-B-5							QCBatchID: QC1208706	
Total Phosphorous as P	0.135	1	0.01	0.02	mg/L	11/12/19	11/12/19	TP
Total Phosphorous as PO4	0.414	1	0.03	0.06	mg/L	11/12/19	11/12/19	TP
Method: sm 9223-B-b Prep Method: Method							QCBatchID: QC1208491	
Fecal Coliform	360	1			MPN/100ml	11/06/19 17:38	11/07/19	LL
Total Coliform	>2400	1			MPN/100ml	11/06/19 17:38	11/07/19	LL

Matrix: Water	Client: Rincon Consultants - Ventura	Collector: Client
Sampled: 11/06/2019 11:35	Site:	
Sample #: <u>421045-009</u>	Client Sample #: L-005	Sample Type:

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed By	Notes
Method: ALCH 4024 Prep Method: None							QCBatchID:	
Total Organic Nitrogen	0.75	1	0.04	0.5	mg/L		11/14/19	SLL
Method: ALCH 4025 Prep Method: None							QCBatchID:	
Total Nitrogen	0.748	1	0.03	0.5	mg/L		11/14/19	SLL
Method: EPA 300.0 Prep Method: Method							QCBatchID: QC1208656	
Nitrate, as Nitrogen	ND	1	0.012	0.1	mg/L	11/06/19	11/07/19 06:09	JP
Nitrite, as Nitrogen	ND	10	0.18	1	mg/L	11/06/19	11/07/19 23:38	JP D2
Method: EPA 351.2 Prep Method: Method							QCBatchID: QC1208789	
Total Kjeldahl Nitrogen	0.748	1	0.052	0.4	mg/L	11/13/19	11/14/19	TP
Method: SM 4500-NH3-G Prep Method: Method							QCBatchID: QC1208711	
Ammonia, as Nitrogen	ND	1	0.01	0.1	mg/L	11/12/19	11/13/19	TP
Method: SM 4500-P-B-5-E Prep Method: 4500-P-B-5							QCBatchID: QC1208706	
Total Phosphorous as P	0.095	1	0.01	0.02	mg/L	11/12/19	11/12/19	TP
Total Phosphorous as PO4	0.291	1	0.03	0.06	mg/L	11/12/19	11/12/19	TP
Method: sm 9223-B-b Prep Method: Method							QCBatchID: QC1208491	
Fecal Coliform	<1	1			MPN/100ml	11/06/19 17:38	11/07/19	LL
Total Coliform	<1	1			MPN/100ml	11/06/19 17:38	11/07/19	LL

Matrix: Water	Client: Rincon Consultants - Ventura	Collector: Client
Sampled: 11/06/2019 11:10	Site:	
Sample #: <u>421045-010</u>	Client Sample #: L-006	Sample Type:

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed By	Notes
Method: ALCH 4024 Prep Method: None							QCBatchID:	
Total Organic Nitrogen	1.20	1	0.04	0.5	mg/L		11/14/19	SLL
Method: ALCH 4025 Prep Method: None							QCBatchID:	
Total Nitrogen	1.20	1	0.03	0.5	mg/L		11/14/19	SLL
Method: EPA 300.0 Prep Method: Method							QCBatchID: QC1208656	
Nitrate, as Nitrogen	ND	1	0.012	0.1	mg/L	11/06/19	11/07/19 06:28	JP
Nitrite, as Nitrogen	ND	10	0.18	1	mg/L	11/06/19	11/07/19 23:57	JP D2
Method: EPA 351.2 Prep Method: Method							QCBatchID: QC1208789	
Total Kjeldahl Nitrogen	1.2	1	0.052	0.4	mg/L	11/13/19	11/14/19	TP
Method: SM 4500-NH3-G Prep Method: Method							QCBatchID: QC1208711	
Ammonia, as Nitrogen	ND	1	0.01	0.1	mg/L	11/12/19	11/13/19	TP
Method: SM 4500-P-B-5-E Prep Method: 4500-P-B-5							QCBatchID: QC1208706	
Total Phosphorous as P	0.215	1	0.01	0.02	mg/L	11/12/19	11/12/19	TP
Total Phosphorous as PO4	0.659	1	0.03	0.06	mg/L	11/12/19	11/12/19	TP
Method: sm 9223-B-b Prep Method: Method							QCBatchID: QC1208491	
Fecal Coliform	650	1			MPN/100ml	11/06/19 17:38	11/07/19	LL
Total Coliform	>2400	1			MPN/100ml	11/06/19 17:38	11/07/19	LL

QCBatchID: QC1208561	Analyst: trinh	Method: EPA 351.2
Matrix: Water	Analyzed: 11/08/2019	Instrument: CHEM (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1208561MB1					
Total Kjeldahl Nitrogen	ND	mg/L	0.052	0.4	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount		Spike Result		Units	Recoveries			Limits		Notes
	LCS	LCSD	LCS	LCSD		LCS	LCSD	RPD	%Rec	RPD	
QC1208561LCS1											
Total Kjeldahl Nitrogen	2.5		2.6		mg/L	104			80-120		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount		Spike Result		Units	Recoveries			Limits		Notes
		MS	MSD	MS	MSD		MS	MSD	RPD	%Rec	RPD	
QC1208561MS1, QC1208561MSD1												
Total Kjeldahl Nitrogen	1.3	12.5	12.5	13	14	mg/L	94	102	7.4	80-120	20	Source: 420909-001

QCBatchID: QC1208656	Analyst: JParedes	Method: EPA 300.0
Matrix: Water	Analyzed: 11/06/2019	Instrument: AAICP (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1208656MB1					
Chloride	ND	mg/L	0.086	1	
Nitrate + Nitrite, as Nitrogen	ND	mg/L	0.018	0.44	
Nitrate, as Nitrogen	ND	mg/L	0.012	0.1	
Nitrate, as NO3	ND	mg/L	0.053	0.44	
Nitrite, as Nitrogen	ND	mg/L	0.018	0.1	
Sulfate	ND	mg/L	0.077	0.5	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount		Spike Result		Units	Recoveries			Limits		Notes
	LCS	LCSD	LCS	LCSD		LCS	LCSD	RPD	%Rec	RPD	
QC1208656LCS1											
Chloride	100		106		mg/L	106			90-110		
Nitrate, as Nitrogen	9.03		9.42		mg/L	104			90-110		
Nitrate, as NO3	40		41.7		mg/L	104			90-110		
Nitrite, as Nitrogen	9.15		9.26		mg/L	101			90-110		
Sulfate	50		51.8		mg/L	104			90-110		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount		Spike Result		Units	Recoveries			Limits		Notes
		MS	MSD	MS	MSD		MS	MSD	RPD	%Rec	RPD	
QC1208656MS1, QC1208656MSD1 Source: 421032-003												
Chloride	153	100	100	225	228	mg/L	72	75	1.3	80-120	20	M
Nitrate, as Nitrogen	5.55	9.03	9.03	14.6	14.9	mg/L	100	104	2.0	80-120	20	
Nitrate, as NO3	24.6	40	40	64.5	66.0	mg/L	100	104	2.3	80-120	20	
Nitrite, as Nitrogen	ND	9.15	9.15	7.83	8.17	mg/L	86	89	4.3	80-120	20	
Sulfate	9.67	50	50	58.9	60.3	mg/L	98	101	2.3	80-120	20	
QC1208656MS2, QC1208656MSD2 Source: 421038-003												
Chloride	81.8	100	100	170	171	mg/L	88	89	0.6	80-120	20	
Nitrate, as Nitrogen	22.9	90.3	90.3	120	119	mg/L	108	106	0.8	80-120	20	
Nitrate, as NO3	101	400	400	531	526	mg/L	108	106	0.9	80-120	20	
Nitrite, as Nitrogen	ND	9.15	9.15	8.53	8.68	mg/L	93	95	1.7	80-120	20	
Sulfate	94.7	50	50	138	139	mg/L	87	89	0.7	80-120	20	

QCBatchID: QC1208706	Analyst: trinh	Method: SM 4500-P-B-5-E
Matrix: Water	Analyzed: 11/12/2019	Instrument: CHEM (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1208706MB1					
Total Phosphorous as P	ND	mg/L	0.01	0.02	
Total Phosphorous as PO4	ND	mg/L	0.03	0.06	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount		Spike Result		Units	Recoveries			Limits		Notes
	LCS	LCSD	LCS	LCSD		LCS	LCSD	RPD	%Rec	RPD	
QC1208706LCS1											
Total Phosphorous as P	0.4		0.387		mg/L	97			80-120		
Total Phosphorous as PO4	1.3		1.19		mg/L	92			80-120		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount		Spike Result		Units	Recoveries			Limits		Notes
		MS	MSD	MS	MSD		MS	MSD	RPD	%Rec	RPD	
QC1208706MS1, QC1208706MSD1												
Total Phosphorous as P	0.0580	0.4	0.4	0.451	0.451	mg/L	98	98	0.0	75-125	20	
Total Phosphorous as PO4	0.178	1.3	1.3	1.38	1.38	mg/L	92	92	0.0	75-125	20	

Source: 421014-001

QCBatchID: <u>QC1208711</u>	Analyst: trinh	Method: SM 4500-NH3-G
Matrix: Water	Analyzed: 11/13/2019	Instrument: CHEM (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1208711MB1					
Ammonia, as Nitrogen	ND	mg/L	0.01	0.1	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount		Spike Result		Units	Recoveries			Limits		Notes
	LCS	LCSD	LCS	LCSD		LCS	LCSD	RPD	%Rec	RPD	
QC1208711LCS1											
Ammonia, as Nitrogen	2.5		2.45		mg/L	98			80-120		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount		Spike Result		Units	Recoveries			Limits		Notes
		MS	MSD	MS	MSD		MS	MSD	RPD	%Rec	RPD	
QC1208711MS1, QC1208711MSD1												
Ammonia, as Nitrogen	ND	5	5	3.21	3.17	mg/L	64	63	1.3	80-120	20	M

Source: 421045-010

QCBatchID: QC1208789	Analyst: jbankhardt	Method: EPA 351.2
Matrix: Water	Analyzed: 11/14/2019	Instrument: CHEM (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1208789MB1					
Total Kjeldahl Nitrogen	ND	mg/L	0.052	0.4	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount		Spike Result		Units	Recoveries			Limits		Notes
	LCS	LCSD	LCS	LCSD		LCS	LCSD	RPD	%Rec	RPD	
QC1208789LCS1											
Total Kjeldahl Nitrogen	2.5		2.6		mg/L	104			80-120		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount		Spike Result		Units	Recoveries			Limits		Notes
		MS	MSD	MS	MSD		MS	MSD	RPD	%Rec	RPD	
QC1208789MS1, QC1208789MSD1												
Total Kjeldahl Nitrogen	ND	12.5	12.5	13	12	mg/L	104	96	8.0	80-120	20	Source: 421045-004

QCBatchID: QC1208792	Analyst: jbankhardt	Method: EPA 351.2
Matrix: Water	Analyzed: 11/14/2019	Instrument: CHEM (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1208792MB1					
Total Kjeldahl Nitrogen	0.055 J	mg/L	0.052	0.4	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount		Spike Result		Units	Recoveries			Limits		Notes
	LCS	LCSD	LCS	LCSD		LCS	LCSD	RPD	%Rec	RPD	
QC1208792LCS1, QC1208792LCSD1											
Total Kjeldahl Nitrogen	2.5	2.5	2.7	2.8	mg/L	108	112	0	80-120	20	

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount		Spike Result		Units	Recoveries			Limits		Notes
		MS	MSD	MS	MSD		MS	MSD	RPD	%Rec	RPD	
QC1208792MS1, QC1208792MSD1 Source: 421067-032												
Total Kjeldahl Nitrogen	1.1	12.5	12.5	14	14	mg/L	103	103	0.0	80-120	20	

Duplicate Summary

Analyte	Sample Amount	Duplicate Amount	Units	RPD	Limits RPD	Notes
QC1208792DUP1 Source: 421067-032						
Total Kjeldahl Nitrogen	1.1	1.1	mg/L	0.0	20	

Data Qualifiers and Definitions

Qualifiers

A	See Report Comments.
B	Analyte was present in an associated method blank.
B1	Analyte was present in a sample and associated method blank greater than MDL but less than RDL.
BQ1	No valid test replicates. Sample Toxicity is possible. Best result was reported.
BQ2	No valid test replicates.
BQ3	No valid test replicates. Final DO is less than 1.0 mg/L. Result may be greater.
BQ4	Minor Dissolved Oxygen loss was observed in the blank water check, however, the LCS was within criteria, validating the batch.
BQ5	Minor Dissolved Oxygen loss was observed in the blank water check.
C	Possible laboratory contamination.
D	RPD was not within control limits. The sample data was reported without further clarification.
D1	Lesser amount of sample was used due to insufficient amount of sample supplied.
D2	Reporting limit is elevated due to sample matrix. Target analyte was not detected above the elevated reporting limit.
D3	Insufficient sample was supplied for TCLP. Client was notified. TCLP was performed per the Client's instructions.
DW	Sample result is calculated on a dry weigh basis.
E	Concentration is estimated because it exceeds the quantification limits of the method.
I	The sample was read outside of the method required incubation period.
IR	Inconclusive Result. Legionella is present, however, there is possible non-specific agglutination preventing specific identification.
J	Reported value is estimated
L	The laboratory control sample (LCS) or laboratory control sample duplicate (LCSD) was out of control limits. Associated sample data was reported with qualifier.
L2	LCS did not meet recovery criteria, however, the MS and/or MSD met LCS recovery criteria, validating the batch.
M	The matrix spike (MS) or matrix spike duplicate (MSD) was not within control limits due to matrix interference. The associated LCS and/or LCSD was within control limits and the sample data was reported without further clarification.
M1	The matrix spike (MS) or matrix spike duplicate (MSD) is not within control limits due to matrix interference.
M2	The matrix spike (MS) or matrix spike duplicate (MSD) was not within control limits. The associated LCS and/or LCSD was not within control limits. Sample result is estimated.
N1	Sample chromatography does not match the specified TPH standard pattern.
NC	The analyte concentration in the sample exceeded the spike level by a factor of four or greater, spike recovery and limits do not apply.
P	Sample was received without proper preservation according to EPA guidelines.
P1	Temperature of sample storage refrigerator was out of acceptance limits.
P2	The sample was preserved within 24 hours of collection in accordance with EPA 218.6.
P3	Per Client request, sample was composited for volatile analysis. Sample compositing for volatile analysis is not recommended due to potential loss of target analytes. Results may be biased low.
Q1	Analyte Calibration Verification exceeds criteria. The result is estimated.
Q2	Analyte calibration was not verified and the result was estimated.
Q3	Analyte initial calibration was not available or exceeds criteria. The result was estimated.
S	The surrogate recovery was out of control limits due to matrix interference. The associated method blank surrogate recovery was within control limits and the sample data was reported without further clarification.
S1	The associated surrogate recovery was out of control limits; result is estimated.
S2	The surrogate was diluted out due to the presence of high concentrations of target and/or non-target compounds. Surrogate recoveries in the associated batch QC met recovery criteria.
S3	Internal Standard did not meet recovery limits. Analyte concentration is estimated.
T	Sample was extracted/analyzed past the holding time.
T1	Reanalysis was reported past hold time due to failing replicates in the original analysis (BOD only).
T2	Sample was analyzed ASAP but received and analyzed past the 15 minute holding time.
T3	Sample received and analyzed out of hold time per client's request.
T4	Sample was analyzed out of hold time per client's request.
T5	Reanalysis was reported past hold time. The original analysis was within hold time, but not reportable.
T6	Hold time is indeterminable due to unspecified sampling time.
T7	Sample was analyzed past hold time due to insufficient time remaining at time of receipt.

Definitions

DF	Dilution Factor
MDL	Method Detection Limit. Result is reported ND when it is less than or equal to MDL.
ND	Analyte was not detected or was less than the detection limit.
NR	Not Reported. See Report Comments.
RDL	Reporting Detection Limit
TIC	Tentatively Identified Compounds

ENTHALPHY ANALYTICAL, INC.

931 W. Barkley Ave., Orange, CA 92868
 Phone: (714) 771-6900 Fax: (714) 538-1209

Billing: Enthalpy - SoCal

c/o Montrose Environmental Group

1 Park Plaza, Suite 1000, Irvine, CA 92614



Chain of Custody Record

Lab No: **421 045**

Page: **1** of **1**

Matrix: A = Air DW = Drinking Water
 FL = Food Liquid FS = Food Solid L = Liquid
 PP = Pure Product S = Solid SeaW = Sea Water
 SW = Swab W = Water WP = Wipe O = Other

Preservatives: 1 = Na₂S₂O₃ 2 = HCl 3 = HNO₃
 4 = H₂SO₄ 5 = NaOH 6 = Other

Turn Around Time (Rush by advanced notice only)

Standard: X 4 Day: 3 Day:
 1 Day: 2 Day: Same Day:

CUSTOMER INFORMATION

Company: Rincon Consultants
 Report To: Kiernan Brialik
 Email:
 Address: 180 N. Ashwood Ave.
 Ventura, CA 93003
 Phone:
 Cell:
 Name: Malibu - Annual
 Number:
 P.O. #:
 Address:
 Global ID:
 Sampled By: James Grunden

PROJECT INFORMATION

Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Analysis Request			Test Instructions / Comments
						Total /Fecal Coliforms - SM 9223 Quantitray	TKN; NH3; Organic Nitrogen (Calculation)	EPA 300.0 (NO2,NO3)	
N-001	11/6/19	1222	water	4		X	X	X	
N-002	11/6/19	1235				X	X	X	
N-003	11/6/19	1147				X	X	X	
N-004	11/6/19	1315				X	X	X	
L-001	11/6/19	0955				X	X	X	
L-002	11/6/19	1035				X	X	X	
L-003	11/6/19	1013				X	X	X	
L-004	11/6/19	1057				X	X	X	
L-005	11/6/19	1135				X	X	X	
L-006	11/6/19	1110				X	X	X	

Analysis Request

Test Instructions / Comments

Signature

Print Name

Company / Title

Date / Time

1 Relinquished By:	<i>[Signature]</i>	JAMES GRUNDEN	Rincon Consultants	11/6/19 1345
1 Received By:	<i>[Signature]</i>	Henri Gutierrez	EA	11/6/19 1345
2 Relinquished By:	<i>[Signature]</i>	Henri Gutierrez	EA	11/6/19 1720
2 Received By:	<i>[Signature]</i>	Elizabeth Ramirez	EA	11/6/19 1720
3 Relinquished By:				
3 Received By:				



ENTHALPY ANALYTICAL

SAMPLE ACCEPTANCE CHECKLIST

Section 1

Client: Rincon Consultants

Project: Malibu -Annual

Date Received: 11/6/19

Sampler's Name Present: Yes No

Section 2

Sample(s) received in a cooler? Yes, How many? 1 No (skip section 2) Sample Temp (°C) (No Cooler): _____

Sample Temp (°C), One from each cooler: #1: 7.8 #2: _____ #3: _____ #4: _____

(Acceptance range is < 6°C but not frozen (for Microbiology samples, acceptance range is < 10°C but not frozen). It is acceptable for samples collected the same day as sample receipt to have a higher temperature as long as there is evidence that cooling has begun.)

Shipping Information: _____

Section 3

Was the cooler packed with: Ice Ice Packs Bubble Wrap Styrofoam
 Paper None Other _____

Cooler Temp (°C): #1: 1.0 #2: _____ #3: _____ #4: _____

Section 4

	YES	NO	N/A
Was a COC received?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Are sample IDs present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Are sampling dates & times present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Is a relinquished signature present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Are the tests required clearly indicated on the COC?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Are custody seals present?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
If custody seals are present, were they intact?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Are all samples sealed in plastic bags? (Recommended for Microbiology samples)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Did all samples arrive intact? If no, indicate in Section 4 below.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Did all bottle labels agree with COC? (ID, dates and times)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Were the samples collected in the correct containers for the required tests?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Are the containers labeled with the correct preservatives?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Is there headspace in the VOA vials greater than 5-6 mm in diameter?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Was a sufficient amount of sample submitted for the requested tests?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Section 5 Explanations/Comments

Section 6

For discrepancies, how was the Project Manager notified? Verbal PM Initials: _____ Date/Time _____
 Email (email sent to/on): _____ / _____

Project Manager's response: _____

Completed By: [Signature] Date: 11/6/19.



Enthalpy Analytical, LLC

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info-sc@enthalpy.com



Client: Rincon Consultants - Ventura
Address: 180 North Ashwood Ave.
Ventura, CA 93003

Attn: Kiernan Brtalik

Comments: Malibu-Quarterly
PO# 15-01587

Lab Request: 421053
Report Date: 11/14/2019
Date Received: 11/06/2019
Client ID: 15888

This laboratory request covers the following listed samples which were analyzed for the parameters indicated on the attached Analytical Result Report. All analyses were conducted using the appropriate methods. Methods accredited by NELAC are indicated on the report. This cover letter is an integral part of the final report.

<u>Sample #</u>	<u>Client Sample ID</u>
421053-001	SMBRP-12
421053-002	MCWP-MW07S
421053-003	MCWP-MW07D
421053-004	MCWP-MW09

Thank you for the opportunity to be of service to your company. Please feel free to call if there are any questions regarding this report or if we can be of further service.

Report Review performed by: Ranjit Clarke, Project Manager

NOTE: Unless notified in writing, all samples will be discarded by appropriate disposal protocol 45 days from date received.

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Matrix: Water	Client: Rincon Consultants - Ventura	Collector: Client
Sampled: 11/06/2019 12:00	Site:	
Sample #: <u>421053-001</u>	Client Sample #: SMBRP-12	Sample Type:

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed By	Notes
Method: ALCH 4024	Prep Method: None		QCBatchID:					
Total Organic Nitrogen	34.6	1	0.04	0.5	mg/L	11/14/19	SLL	
Method: ALCH 4025	Prep Method: None		QCBatchID:					
Total Nitrogen	40.0	1	0.03	0.5	mg/L	11/14/19	SLL	
Method: EPA 1664A	Prep Method: Method		QCBatchID: QC1208547					
Total Oil and Grease	ND	1.11	1.554	5.55	mg/L	11/07/19	11/07/19	EC
Method: EPA 200.7	Prep Method: EPA 200.7		QCBatchID: QC1208504					
Boron	0.756	1	0.03	0.05	mg/L	11/08/19	SBW	
Method: EPA 300.0	Prep Method: Method		QCBatchID: QC1208657					
Chloride	406	5	0.43	5	mg/L	11/06/19	11/07/19 17:19	JP
Fluoride	0.48	1	0.093	0.2	mg/L	11/06/19	11/07/19 06:47	JP
Nitrate, as Nitrogen	ND	1	0.012	0.1	mg/L	11/06/19	11/07/19 06:47	JP
Nitrite, as Nitrogen	ND	1	0.018	0.1	mg/L	11/06/19	11/07/19 06:47	JP
Sulfate	399	5	0.385	5	mg/L	11/06/19	11/07/19 17:19	JP
Method: EPA 351.2	Prep Method: Method		QCBatchID: QC1208789					
Total Kjeldahl Nitrogen	40	5	0.26	2	mg/L	11/13/19	11/14/19	TP
Method: SM 2120-B	Prep Method: Method		QCBatchID: QC1208523					
Color	ND	1	5	5	Color Unit	11/06/19	18:00	TP
Method: SM 2130-B	Prep Method: Method		QCBatchID: QC1208522					
Turbidity	38	1	0.074	0.1	NTU	11/06/19	18:00	TP
Method: SM 2150-B	Prep Method: Method		QCBatchID: QC1208524					
Odor Threshold	ND	1	1	1	T.O.N	11/06/19	18:00	TP
Method: SM 2540-C	Prep Method: Method		QCBatchID: QC1208588					
Total Dissolved Solids	1510	2	20	20	mg/L	11/08/19	11/09/19	TP
Method: SM 2540-D	Prep Method: SM 2540-D		QCBatchID: QC1208603					
Total Suspended Solids	107	2.5	1.25	1.25	mg/L	11/07/19	11/07/19	NP
Method: SM 4500-Cl	Prep Method: Method		QCBatchID: QC1208541					
Chlorine, Total Residual	ND	1	0.016	0.1	mg/L	11/07/19	15:30	WW T2
Method: SM 4500-H+B	Prep Method: Method		QCBatchID: QC1208614					
pH	7.15	1			SU	11/06/19 00:00	11/06/19 18:20	WW T2
Temp. at Time of pH Measurement	11.5	1			°C	11/06/19 00:00	11/06/19 18:20	WW
Method: SM 4500-NH3-G	Prep Method: Method		QCBatchID: QC1208712					
Ammonia, as Nitrogen	5.35	5	0.05	0.5	mg/L	11/12/19	11/13/19	TP
Method: SM 4500-P-B-5-E	Prep Method: 4500-P-B-5		QCBatchID: QC1208706					
Total Phosphorous as P	1.215	15	0.15	0.3	mg/L	11/12/19	11/12/19	TP
Total Phosphorous as PO4	3.72	15	0.45	0.9	mg/L	11/12/19	11/12/19	TP
Method: SM 5210-B	Prep Method: Method/5day		QCBatchID: QC1208495					
BOD	ND	1	3	3	mg/L	11/06/19	11/06/19 18:20	EC BQ2
Method: SM 5310B	Prep Method: Method		QCBatchID: QC1208488					
Total Organic Carbon (TOC)	18.6	1	0.091	1	mg/L	11/06/19	11/06/19	TP
Method: SM 5540-C	Prep Method: Method		QCBatchID: QC1208557					
MBAS	0.17	1	0.027	0.04	mg/L	11/07/19 08:00	11/07/19 16:42	NP
Method: sm 9223-B-b	Prep Method: Method		QCBatchID: QC1208491					
Fecal Coliform	<1	1			MPN/100ml	11/06/19 17:38	11/07/19	LL
Total Coliform	290	1			MPN/100ml	11/06/19 17:38	11/07/19	LL

Matrix: Water	Client: Rincon Consultants - Ventura	Collector: Client
Sampled: 11/06/2019 10:30	Site:	
Sample #: <u>421053-002</u>	Client Sample #: MCWP-MW07S	Sample Type:

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed By	Notes
Method: ALCH 4024	Prep Method: None		QCBatchID:					
Total Organic Nitrogen	ND	1	0.04	0.5	mg/L	11/14/19	SLL	
Method: ALCH 4025	Prep Method: None		QCBatchID:					
Total Nitrogen	5.18	1	0.03	0.5	mg/L	11/14/19	SLL	
Method: EPA 1664A	Prep Method: Method		QCBatchID: QC1208547					
Total Oil and Grease	2.0 J	1.11	1.554	5.55	mg/L	11/07/19	11/07/19	EC J
Method: EPA 200.7	Prep Method: EPA 200.7		QCBatchID: QC1208504					
Boron	0.333	1	0.03	0.05	mg/L	11/08/19	SBW	
Method: EPA 300.0	Prep Method: Method		QCBatchID: QC1208657					
Chloride	208	5	0.43	5	mg/L	11/06/19	11/07/19 17:38	JP
Fluoride	0.46	1	0.093	0.2	mg/L	11/06/19	11/07/19 07:06	JP
Nitrate, as Nitrogen	5.03	1	0.012	0.1	mg/L	11/06/19	11/07/19 07:06	JP
Nitrite, as Nitrogen	ND	1	0.018	0.1	mg/L	11/06/19	11/07/19 07:06	JP
Sulfate	278	5	0.385	5	mg/L	11/06/19	11/07/19 17:38	JP
Method: EPA 351.2	Prep Method: Method		QCBatchID: QC1208789					
Total Kjeldahl Nitrogen	0.155 J	1	0.052	0.4	mg/L	11/13/19	11/14/19	TP J
Method: SM 2120-B	Prep Method: Method		QCBatchID: QC1208523					
Color	ND	1	5	5	Color Unit	11/06/19	18:00	TP
Method: SM 2130-B	Prep Method: Method		QCBatchID: QC1208522					
Turbidity	60	1	0.074	0.1	NTU	11/06/19	18:00	TP
Method: SM 2150-B	Prep Method: Method		QCBatchID: QC1208524					
Odor Threshold	ND	1	1	1	T.O.N	11/06/19	18:00	TP
Method: SM 2540-C	Prep Method: Method		QCBatchID: QC1208588					
Total Dissolved Solids	1040	2	20	20	mg/L	11/08/19	11/09/19	TP
Method: SM 2540-D	Prep Method: SM 2540-D		QCBatchID: QC1208603					
Total Suspended Solids	134	4	2	2	mg/L	11/07/19	11/07/19	NP
Method: SM 4500-Cl	Prep Method: Method		QCBatchID: QC1208541					
Chlorine, Total Residual	ND	1	0.016	0.1	mg/L	11/07/19	15:30	WW T2
Method: SM 4500-H+B	Prep Method: Method		QCBatchID: QC1208614					
pH	7.31	1			SU	11/06/19 00:00	11/06/19 18:21	WW T2
Temp. at Time of pH Measurement	15.6	1			°C	11/06/19 00:00	11/06/19 18:21	WW
Method: SM 4500-NH3-G	Prep Method: Method		QCBatchID: QC1208712					
Ammonia, as Nitrogen	0.149	1	0.01	0.1	mg/L	11/12/19	11/13/19	TP
Method: SM 4500-P-B-5-E	Prep Method: 4500-P-B-5		QCBatchID: QC1208706					
Total Phosphorous as P	0.146	1	0.01	0.02	mg/L	11/12/19	11/12/19	TP
Total Phosphorous as PO4	0.448	1	0.03	0.06	mg/L	11/12/19	11/12/19	TP
Method: SM 5210-B	Prep Method: Method/5day		QCBatchID: QC1208495					
BOD	ND	1	3	3	mg/L	11/06/19	11/06/19 18:21	EC BQ2
Method: SM 5310B	Prep Method: Method		QCBatchID: QC1208488					
Total Organic Carbon (TOC)	2.55	1	0.091	1	mg/L	11/06/19	11/06/19	TP
Method: SM 5540-C	Prep Method: Method		QCBatchID: QC1208557					
MBAS	0.27	1	0.027	0.04	mg/L	11/07/19 08:00	11/07/19 16:42	NP
Method: sm 9223-B-b	Prep Method: Method		QCBatchID: QC1208491					
Fecal Coliform	<1	1			MPN/100ml	11/06/19 17:38	11/07/19	LL
Total Coliform	2000	1			MPN/100ml	11/06/19 17:38	11/07/19	LL

Matrix: Water	Client: Rincon Consultants - Ventura	Collector: Client
Sampled: 11/06/2019 10:00	Site:	
Sample #: <u>421053-003</u>	Client Sample #: MCWP-MW07D	Sample Type:

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed By	Notes
Method: ALCH 4024 Prep Method: None							QCBatchID:	
Total Organic Nitrogen	2.06	1	0.04	0.5	mg/L		11/14/19	SLL
Method: ALCH 4025 Prep Method: None							QCBatchID:	
Total Nitrogen	2.73	1	0.03	0.5	mg/L		11/14/19	SLL
Method: EPA 1664A Prep Method: Method							QCBatchID: QC1208547	
Total Oil and Grease	2.0 J	1.11	1.554	5.55	mg/L	11/07/19	11/07/19	EC J
Method: EPA 200.7 Prep Method: EPA 200.7							QCBatchID: QC1208504	
Boron	0.109	1	0.03	0.05	mg/L		11/08/19	SBW
Method: EPA 300.0 Prep Method: Method							QCBatchID: QC1208657	
Chloride	79.8	1	0.086	1	mg/L	11/06/19	11/07/19 08:02	JP
Fluoride	0.28	1	0.093	0.2	mg/L	11/06/19	11/07/19 08:02	JP
Nitrate, as Nitrogen	0.43	1	0.012	0.1	mg/L	11/06/19	11/07/19 08:02	JP
Nitrite, as Nitrogen	ND	1	0.018	0.1	mg/L	11/06/19	11/07/19 08:02	JP
Sulfate	120	5	0.385	5	mg/L	11/06/19	11/07/19 17:57	JP
Method: EPA 351.2 Prep Method: Method							QCBatchID: QC1208789	
Total Kjeldahl Nitrogen	2.3	1	0.052	0.4	mg/L	11/13/19	11/14/19	TP
Method: SM 2120-B Prep Method: Method							QCBatchID: QC1208523	
Color	ND	1	5	5	Color Unit		11/06/19 18:00	TP
Method: SM 2130-B Prep Method: Method							QCBatchID: QC1208522	
Turbidity	24	1	0.074	0.1	NTU		11/06/19 18:00	TP
Method: SM 2150-B Prep Method: Method							QCBatchID: QC1208524	
Odor Threshold	ND	1	1	1	T.O.N		11/06/19 18:00	TP
Method: SM 2540-C Prep Method: Method							QCBatchID: QC1208588	
Total Dissolved Solids	308	2	20	20	mg/L	11/08/19	11/09/19	TP
Method: SM 2540-D Prep Method: SM 2540-D							QCBatchID: QC1208603	
Total Suspended Solids	37.4	2	1	1	mg/L	11/07/19	11/07/19	NP
Method: SM 4500-Cl Prep Method: Method							QCBatchID: QC1208541	
Chlorine, Total Residual	ND	1	0.016	0.1	mg/L		11/07/19 15:30	WW T2
Method: SM 4500-H+B Prep Method: Method							QCBatchID: QC1208614	
pH	6.90	1			SU	11/06/19 00:00	11/06/19 18:22	WW T2
Temp. at Time of pH Measurement	15.4	1			°C	11/06/19 00:00	11/06/19 18:22	WW
Method: SM 4500-NH3-G Prep Method: Method							QCBatchID: QC1208712	
Ammonia, as Nitrogen	0.242	1	0.01	0.1	mg/L	11/12/19	11/13/19	TP
Method: SM 4500-P-B-5-E Prep Method: 4500-P-B-5							QCBatchID: QC1208706	
Total Phosphorous as P	0.284	1	0.01	0.02	mg/L	11/12/19	11/12/19	TP
Total Phosphorous as PO4	0.871	1	0.03	0.06	mg/L	11/12/19	11/12/19	TP
Method: SM 5210-B Prep Method: Method/5day							QCBatchID: QC1208495	
BOD	6	1	3	3	mg/L	11/06/19	11/06/19 18:22	EC BQ2
Method: SM 5310B Prep Method: Method							QCBatchID: QC1208488	
Total Organic Carbon (TOC)	18.9	1	0.091	1	mg/L	11/06/19	11/06/19	TP
Method: SM 5540-C Prep Method: Method							QCBatchID: QC1208557	
MBAS	7.3	25	0.675	1	mg/L	11/07/19 08:00	11/07/19 16:42	NP
Method: sm 9223-B-b Prep Method: Method							QCBatchID: QC1208491	
Fecal Coliform	<1	1			MPN/100ml	11/06/19 17:38	11/07/19	LL
Total Coliform	1300	1			MPN/100ml	11/06/19 17:38	11/07/19	LL

Matrix: Water	Client: Rincon Consultants - Ventura	Collector: Client
Sampled: 11/06/2019 12:45	Site:	
Sample #: <u>421053-004</u>	Client Sample #: MCWP-MW09	Sample Type:

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed By	Notes
Method: ALCH 4024 Prep Method: None							QCBatchID:	
Total Organic Nitrogen	0.85	1	0.04	0.5	mg/L		11/14/19	SLL
Method: ALCH 4025 Prep Method: None							QCBatchID:	
Total Nitrogen	2.08	1	0.03	0.5	mg/L		11/14/19	SLL
Method: EPA 1664A Prep Method: Method							QCBatchID: QC1208547	
Total Oil and Grease	5.3 J	1.11	1.554	5.55	mg/L	11/07/19	11/07/19	EC J
Method: EPA 200.7 Prep Method: EPA 200.7							QCBatchID: QC1208504	
Boron	0.626	1	0.03	0.05	mg/L		11/08/19	SBW
Method: EPA 300.0 Prep Method: Method							QCBatchID: QC1208657	
Chloride	463	10	0.86	10	mg/L	11/06/19	11/07/19 18:16	JP
Fluoride	0.52	1	0.093	0.2	mg/L	11/06/19	11/07/19 08:21	JP
Nitrate, as Nitrogen	0.18	1	0.012	0.1	mg/L	11/06/19	11/07/19 08:21	JP
Nitrite, as Nitrogen	ND	1	0.018	0.1	mg/L	11/06/19	11/07/19 08:21	JP
Sulfate	498	10	0.77	10	mg/L	11/06/19	11/07/19 18:16	JP
Method: EPA 351.2 Prep Method: Method							QCBatchID: QC1208789	
Total Kjeldahl Nitrogen	1.9	1	0.052	0.4	mg/L	11/13/19	11/14/19	TP
Method: SM 2120-B Prep Method: Method							QCBatchID: QC1208523	
Color	ND	1	5	5	Color Unit		11/06/19 18:00	TP
Method: SM 2130-B Prep Method: Method							QCBatchID: QC1208522	
Turbidity	16	1	0.074	0.1	NTU		11/06/19 18:00	TP
Method: SM 2150-B Prep Method: Method							QCBatchID: QC1208524	
Odor Threshold	ND	1	1	1	T.O.N		11/06/19 18:00	TP
Method: SM 2540-C Prep Method: Method							QCBatchID: QC1208588	
Total Dissolved Solids	1710	2	20	20	mg/L	11/08/19	11/09/19	TP
Method: SM 2540-D Prep Method: SM 2540-D							QCBatchID: QC1208603	
Total Suspended Solids	32.2	2	1	1	mg/L	11/07/19	11/07/19	NP
Method: SM 4500-Cl Prep Method: Method							QCBatchID: QC1208541	
Chlorine, Total Residual	ND	1	0.016	0.1	mg/L		11/07/19 15:30	WW T2
Method: SM 4500-H+B Prep Method: Method							QCBatchID: QC1208614	
pH	7.39	1			SU	11/06/19 00:00	11/06/19 18:25	WW T2
Temp. at Time of pH Measurement	14.6	1			°C	11/06/19 00:00	11/06/19 18:25	WW
Method: SM 4500-NH3-G Prep Method: Method							QCBatchID: QC1208712	
Ammonia, as Nitrogen	1.05	1	0.01	0.1	mg/L	11/12/19	11/13/19	TP
Method: SM 4500-P-B-5-E Prep Method: 4500-P-B-5							QCBatchID: QC1208706	
Total Phosphorous as P	0.287	1	0.01	0.02	mg/L	11/12/19	11/12/19	TP
Total Phosphorous as PO4	0.880	1	0.03	0.06	mg/L	11/12/19	11/12/19	TP
Method: SM 5210-B Prep Method: Method/5day							QCBatchID: QC1208495	
BOD	7	1	3	3	mg/L	11/06/19	11/06/19 18:25	EC BQ2
Method: SM 5310B Prep Method: Method							QCBatchID: QC1208488	
Total Organic Carbon (TOC)	19.4	1	0.091	1	mg/L	11/06/19	11/06/19	TP
Method: SM 5540-C Prep Method: Method							QCBatchID: QC1208557	
MBAS	10	12.5	0.3375	0.5	mg/L	11/07/19 08:00	11/07/19 16:42	NP
Method: sm 9223-B-b Prep Method: Method							QCBatchID: QC1208491	
Fecal Coliform	<1	1			MPN/100ml	11/06/19 17:38	11/07/19	LL
Total Coliform	180	1			MPN/100ml	11/06/19 17:38	11/07/19	LL

QCBatchID: QC1208488	Analyst: trinh	Method: SM 5310B
Matrix: Water	Analyzed: 11/06/2019	Instrument: CHEM (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1208488MB1					
Total Organic Carbon (TOC)	ND	mg/L	0.091	1	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount		Spike Result		Units	Recoveries			Limits		Notes
	LCS	LCSD	LCS	LCSD		LCS	LCSD	RPD	%Rec	RPD	
QC1208488LCS1											
Total Organic Carbon (TOC)	10		9.44		mg/L	94			80-120		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount		Spike Result		Units	Recoveries			Limits		Notes
		MS	MSD	MS	MSD		MS	MSD	RPD	%Rec	RPD	
QC1208488MS1, QC1208488MSD1												
Total Organic Carbon (TOC)	14.0	20	20	33.2	34.2	mg/L	96	101	3.0	80-120	20	Source: 420789-002

QC BatchID: QC1208495	Analyst: npham	Method: SM 5210-B
Matrix: Water	Analyzed: 11/06/2019	Instrument: CHEM (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1208495MB1					
BOD	ND	mg/L	3	3	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount		Spike Result		Units	Recoveries			Limits		Notes
	LCS	LCSD	LCS	LCSD		LCS	LCSD	RPD	%Rec	RPD	
QC1208495LCS1											
BOD	198		177		mg/L	89			84.6-115.4		

QCBatchID: QC1208504	Analyst: rvenegas	Method: EPA 200.7
Matrix: Water	Analyzed: 11/07/2019	Instrument: AAICP (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1208504MB1					
Aluminum	ND	mg/L	0.033	0.05	
Arsenic	ND	mg/L	0.009	0.01	
Barium	ND	mg/L	0.002	0.01	
Boron	ND	mg/L	0.03	0.05	
Cadmium	ND	mg/L	0.002	0.005	
Chromium	ND	mg/L	0.002	0.01	
Copper	ND	mg/L	0.008	0.01	
Lead	ND	mg/L	0.007	0.01	
Manganese	ND	mg/L	0.006	0.01	
Nickel	ND	mg/L	0.004	0.01	
Potassium	ND	mg/L	0.167	0.5	
Silver	ND	mg/L	0.005	0.005	
Sodium	ND	mg/L	0.119	0.5	
Zinc	ND	mg/L	0.017	0.05	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount		Spike Result		Units	Recoveries			Limits		Notes
	LCS	LCSD	LCS	LCSD		LCS	LCSD	RPD	%Rec	RPD	
QC1208504LCS1											
Aluminum	2		2.03		mg/L	102			85-115		
Arsenic	2		1.81		mg/L	91			85-115		
Barium	2		1.91		mg/L	96			85-115		
Boron	2		1.84		mg/L	92			85-115		
Cadmium	2		1.86		mg/L	93			85-115		
Chromium	2		1.89		mg/L	95			85-115		
Copper	2		1.80		mg/L	90			85-115		
Lead	2		1.78		mg/L	89			85-115		
Manganese	2		2.03		mg/L	102			85-115		
Nickel	2		1.85		mg/L	93			85-115		
Potassium	38		35.9		mg/L	94			85-115		
Silver	1		0.916		mg/L	92			85-115		
Sodium	20		19.6		mg/L	98			85-115		
Zinc	2		1.99		mg/L	100			85-115		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount		Spike Result		Units	Recoveries			Limits		Notes
		MS	MSD	MS	MSD		MS	MSD	RPD	%Rec	RPD	
QC1208504MS1												
Aluminum	1.62	1		2.64		mg/L	102			75-125		
Arsenic	ND	1		1.11		mg/L	111			75-125		
Barium	0.026	1		0.970		mg/L	94			75-125		
Boron	7.10	1		8.46		mg/L	136			75-125		NC
Cadmium	0.158	1		1.11		mg/L	95			75-125		
Chromium	ND	1		0.908		mg/L	91			75-125		
Copper	ND	1		0.898		mg/L	90			75-125		
Lead	ND	1		0.979		mg/L	98			75-125		
Manganese	ND	1		0.970		mg/L	97			75-125		
Nickel	0.688	1		1.66		mg/L	97			75-125		
Potassium	3870	29		4220		mg/L	1207			75-125		NC
Silver	ND	1		0.955		mg/L	96			75-125		
Sodium	7760	20		7870		mg/L	550			75-125		NC
Zinc	0.431	1		1.52		mg/L	109			75-125		

Source: 420955-001

QCBatchID: **QC1208504**

Analyst: rvenegas

Method: EPA 200.7

Matrix: Water

Analyzed: 11/07/2019

Instrument: AAICP (group)

Analyte	Sample Amount	Spike Amount		Spike Result		Units	Recoveries			Limits		Notes
		MS	MSD	MS	MSD		MS	MSD	RPD	%Rec	RPD	
QC1208504MS2							Source: 421053-002					
Aluminum	2.70	1		3.55		mg/L	85			75-125		
Arsenic	ND	1		0.948		mg/L	95			75-125		
Barium	0.069	1		0.953		mg/L	88			75-125		
Boron	0.333	1		1.22		mg/L	89			75-125		
Cadmium	ND	1		0.830		mg/L	83			75-125		
Chromium	0.010	1		0.880		mg/L	87			75-125		
Copper	ND	1		0.863		mg/L	86			75-125		
Lead	ND	1		0.834		mg/L	83			75-125		
Manganese	0.505	1		1.48		mg/L	98			75-125		
Nickel	0.009	1		0.842		mg/L	83			75-125		
Potassium	5.66	29		31.7		mg/L	90			75-125		
Silver	ND	1		0.864		mg/L	86			75-125		
Sodium	213	20		208		mg/L	0			75-125		NC
Zinc	0.023	1		0.895		mg/L	87			75-125		

QCBatchID: **QC1208522**

Analyst: wei

Method: SM 2130-B

Matrix: Water

Analyzed: 11/06/2019

Instrument: CHEM (group)

Duplicate Summary

Analyte	Sample Amount	Duplicate Amount	Units	RPD	Limits RPD	Notes
QC1208522DUP1						Source: 421043-001
Turbidity	0.12	0.12	NTU	0.0	20	

QCBatchID: **QC1208523**

Analyst: wei

Method: SM 2120-B

Matrix: Water

Analyzed: 11/06/2019

Instrument: CHEM (group)

Duplicate Summary

Analyte	Sample Amount	Duplicate Amount	Units	RPD	Limits RPD	Notes
QC1208523DUP1						Source: 421043-004
Color	ND	ND	Color Unit	0.0	20	

QCBatchID: **QC1208524**

Analyst: wei

Method: SM 2150-B

Matrix: Water

Analyzed: 11/06/2019

Instrument: CHEM (group)

Duplicate Summary

Analyte	Sample Amount	Duplicate Amount	Units	RPD	Limits RPD	Notes
QC1208524DUP1						Source: 421043-004
Odor Threshold	ND	ND	T.O.N	0.0	20	

QCBatchID: <u>QC1208541</u>	Analyst: npham	Method: SM 4500-Cl
Matrix: Water	Analyzed: 11/07/2019	Instrument: CHEM (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1208541MB1					
Chlorine, Total Residual	ND	mg/L	0.016	0.1	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount		Spike Result		Units	Recoveries			Limits		Notes
	LCS	LCSD	LCS	LCSD		LCS	LCSD	RPD	%Rec	RPD	
QC1208541LCS1											
Chlorine, Total Residual	1		1.09		mg/L	109			80-120		

Duplicate Summary

Analyte	Sample Amount	Duplicate Amount	Units	RPD	Limits RPD	Notes
QC1208541DUP1						
Chlorine, Total Residual	ND	ND	mg/L	0.0	20	Source: 421106-001

QCBatchID: <u>QC1208547</u>	Analyst: Echavez	Method: EPA 1664A
Matrix: Water	Analyzed: 11/07/2019	Instrument: CHEM (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1208547MB1					
Total Oil and Grease	ND	mg/L	1.4	5	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount		Spike Result		Units	Recoveries			Limits		Notes
	LCS	LCSD	LCS	LCSD		LCS	LCSD	RPD	%Rec	RPD	
QC1208547LCS1, QC1208547LCSD1											
Total Oil and Grease	40	40	35.7	37.0	mg/L	89	93	4	78-114	18	

QCBatchID: <u>QC1208557</u>	Analyst: npham	Method: SM 5540-C
Matrix: Water	Analyzed: 11/07/2019	Instrument: CHEM (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1208557MB1					
MBAS	ND	mg/L	0.027	0.04	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount		Spike Result		Units	Recoveries			Limits		Notes
	LCS	LCSD	LCS	LCSD		LCS	LCSD	RPD	%Rec	RPD	
QC1208557LCS1											
MBAS	1		1.1		mg/L	110			80-120		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount		Spike Result		Units	Recoveries			Limits		Notes
		MS	MSD	MS	MSD		MS	MSD	RPD	%Rec	RPD	
QC1208557MS1, QC1208557MSD1												
MBAS	ND	1	1	1.0	1.0	mg/L	100	100	0.0	75-125	20	

Source: 421057-001

QCBatchID: QC1208588	Analyst: npham	Method: SM 2540-C
Matrix: Water	Analyzed: 11/09/2019	Instrument: CHEM (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1208588MB1					
Total Dissolved Solids	ND	mg/L	10	10	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount		Spike Result		Units	Recoveries			Limits		Notes
	LCS	LCSD	LCS	LCSD		LCS	LCSD	RPD	%Rec	RPD	
QC1208588LCS1											
Total Dissolved Solids	95		96.0		mg/L	101			90-110		

Duplicate Summary

Analyte	Sample Amount	Duplicate Amount	Units	RPD	Limits RPD	Notes
QC1208588DUP1						
Total Dissolved Solids	1510	1510	mg/L	0.0	5	Source: 421053-001

QCBatchID: <u>QC1208603</u>	Analyst: npham	Method: SM 2540-D
Matrix: Water	Analyzed: 11/07/2019	Instrument: CHEM (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1208603MB1					
Total Suspended Solids	ND	mg/L	0.5	0.5	

Duplicate Summary

Analyte	Sample Amount	Duplicate Amount	Units	RPD	Limits RPD	Notes
QC1208603DUP1						Source: 421053-001
Total Suspended Solids	107	106	mg/L	0.9	5	

QC Batch ID: **QC1208614**

Analyst: wei

Method: SM 4500-H+B

Matrix: Water

Analyzed: 11/06/2019

Instrument: CHEM (group)

Duplicate Summary

Analyte	Sample Amount	Duplicate Amount	Units	RPD	Limits RPD	Notes
QC1208614DUP1						Source: 421053-001
pH	7.15	7.16	SU	0.1	20	
Temp. at Time of pH Measurement	11.5	11.5	°C	0.0	20	

QCBatchID: QC1208657	Analyst: JParedes	Method: EPA 300.0
Matrix: Water	Analyzed: 11/06/2019	Instrument: AAICP (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1208657MB1					
Chloride	ND	mg/L	0.086	1	
Fluoride	ND	mg/L	0.093	0.2	
Nitrate, as Nitrogen	ND	mg/L	0.012	0.1	
Nitrate, as NO3	ND	mg/L	0.053	0.44	
Nitrite, as Nitrogen	ND	mg/L	0.018	0.1	
Nitrite, as NO2	ND	mg/L	0.06	0.33	
Sulfate	ND	mg/L	0.077	0.5	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount		Spike Result		Units	Recoveries			Limits		Notes
	LCS	LCSD	LCS	LCSD		LCS	LCSD	RPD	%Rec	RPD	
QC1208657LCS1											
Chloride	100		107		mg/L	107			90-110		
Fluoride	20		20.9		mg/L	105			90-110		
Nitrate, as Nitrogen	9.03		9.48		mg/L	105			90-110		
Nitrate, as NO3	40		42.0		mg/L	105			90-110		
Nitrite, as Nitrogen	9.15		9.45		mg/L	103			90-110		
Nitrite, as NO2	30		31.0		mg/L	103			90-110		
Sulfate	50		51.8		mg/L	104			90-110		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount		Spike Result		Units	Recoveries			Limits		Notes
		MS	MSD	MS	MSD		MS	MSD	RPD	%Rec	RPD	
QC1208657MS1, QC1208657MSD1												Source: 421044-003
Chloride	153	100	100	226	227	mg/L	73	74	0.4	80-120	20	M
Fluoride	0.254	20	20	20.1	21.0	mg/L	99	104	4.4	80-120	20	
Nitrate, as Nitrogen	5.20	9.03	9.03	14.2	14.6	mg/L	100	104	2.8	80-120	20	
Nitrate, as NO3	23.0	40	40	63.1	64.6	mg/L	100	104	2.3	80-120	20	
Nitrite, as Nitrogen	ND	9.15	9.15	7.83	8.10	mg/L	86	89	3.4	80-120	20	
Nitrite, as NO2	ND	30	30	25.7	26.6	mg/L	86	89	3.4	80-120	20	
Sulfate	8.02	50	50	57.2	58.8	mg/L	98	102	2.8	80-120	20	
QC1208657MS2, QC1208657MSD2												Source: 421044-007
Chloride	98.6	100	100	193	194	mg/L	94	95	0.5	80-120	20	
Fluoride	0.289	20	20	22.8	23.1	mg/L	113	114	1.3	80-120	20	
Nitrate, as Nitrogen	5.26	9.03	9.03	15.2	15.3	mg/L	110	111	0.7	80-120	20	
Nitrate, as NO3	23.3	40	40	67.2	67.6	mg/L	110	111	0.6	80-120	20	
Nitrite, as Nitrogen	ND	9.15	9.15	9.55	9.62	mg/L	104	105	0.7	80-120	20	
Nitrite, as NO2	ND	30	30	31.3	31.6	mg/L	104	105	1.0	80-120	20	
Sulfate	1.78	50	50	57.8	58.6	mg/L	112	114	1.4	80-120	20	

QCBatchID: QC1208706	Analyst: trinh	Method: SM 4500-P-B-5-E
Matrix: Water	Analyzed: 11/12/2019	Instrument: CHEM (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1208706MB1					
Total Phosphorous as P	ND	mg/L	0.01	0.02	
Total Phosphorous as PO4	ND	mg/L	0.03	0.06	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount		Spike Result		Units	Recoveries			Limits		Notes
	LCS	LCSD	LCS	LCSD		LCS	LCSD	RPD	%Rec	RPD	
QC1208706LCS1											
Total Phosphorous as P	0.4		0.387		mg/L	97			80-120		
Total Phosphorous as PO4	1.3		1.19		mg/L	92			80-120		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount		Spike Result		Units	Recoveries			Limits		Notes
		MS	MSD	MS	MSD		MS	MSD	RPD	%Rec	RPD	
QC1208706MS1, QC1208706MSD1 Source: 421014-001												
Total Phosphorous as P	0.0580	0.4	0.4	0.451	0.451	mg/L	98	98	0.0	75-125	20	
Total Phosphorous as PO4	0.178	1.3	1.3	1.38	1.38	mg/L	92	92	0.0	75-125	20	

QCBatchID: QC1208712	Analyst: trinh	Method: SM 4500-NH3-G
Matrix: Water	Analyzed: 11/13/2019	Instrument: CHEM (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1208712MB1					
Ammonia, as Nitrogen	ND	mg/L	0.01	0.1	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount		Spike Result		Units	Recoveries			Limits		Notes
	LCS	LCSD	LCS	LCSD		LCS	LCSD	RPD	%Rec	RPD	
QC1208712LCS1											
Ammonia, as Nitrogen	2.5		2.45		mg/L	98			80-120		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount		Spike Result		Units	Recoveries			Limits		Notes
		MS	MSD	MS	MSD		MS	MSD	RPD	%Rec	RPD	
QC1208712MS1, QC1208712MSD1												
Ammonia, as Nitrogen	0.030	5	5	4.76	4.76	mg/L	95	95	11.7	80-120	20	Source: 421170-001

QCBatchID: QC1208789	Analyst: jbankhardt	Method: EPA 351.2
Matrix: Water	Analyzed: 11/14/2019	Instrument: CHEM (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1208789MB1					
Total Kjeldahl Nitrogen	ND	mg/L	0.052	0.4	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount		Spike Result		Units	Recoveries			Limits		Notes
	LCS	LCSD	LCS	LCSD		LCS	LCSD	RPD	%Rec	RPD	
QC1208789LCS1											
Total Kjeldahl Nitrogen	2.5		2.6		mg/L	104			80-120		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount		Spike Result		Units	Recoveries			Limits		Notes
		MS	MSD	MS	MSD		MS	MSD	RPD	%Rec	RPD	
QC1208789MS1, QC1208789MSD1												
Total Kjeldahl Nitrogen	ND	12.5	12.5	13	12	mg/L	104	96	8.0	80-120	20	Source: 421045-004

Data Qualifiers and Definitions

Qualifiers

A	See Report Comments.
B	Analyte was present in an associated method blank.
B1	Analyte was present in a sample and associated method blank greater than MDL but less than RDL.
BQ1	No valid test replicates. Sample Toxicity is possible. Best result was reported.
BQ2	No valid test replicates.
BQ3	No valid test replicates. Final DO is less than 1.0 mg/L. Result may be greater.
BQ4	Minor Dissolved Oxygen loss was observed in the blank water check, however, the LCS was within criteria, validating the batch.
BQ5	Minor Dissolved Oxygen loss was observed in the blank water check.
C	Possible laboratory contamination.
D	RPD was not within control limits. The sample data was reported without further clarification.
D1	Lesser amount of sample was used due to insufficient amount of sample supplied.
D2	Reporting limit is elevated due to sample matrix. Target analyte was not detected above the elevated reporting limit.
D3	Insufficient sample was supplied for TCLP. Client was notified. TCLP was performed per the Client's instructions.
DW	Sample result is calculated on a dry weigh basis.
E	Concentration is estimated because it exceeds the quantification limits of the method.
I	The sample was read outside of the method required incubation period.
IR	Inconclusive Result. Legionella is present, however, there is possible non-specific agglutination preventing specific identification.
J	Reported value is estimated
L	The laboratory control sample (LCS) or laboratory control sample duplicate (LCSD) was out of control limits. Associated sample data was reported with qualifier.
L2	LCS did not meet recovery criteria, however, the MS and/or MSD met LCS recovery criteria, validating the batch.
M	The matrix spike (MS) or matrix spike duplicate (MSD) was not within control limits due to matrix interference. The associated LCS and/or LCSD was within control limits and the sample data was reported without further clarification.
M1	The matrix spike (MS) or matrix spike duplicate (MSD) is not within control limits due to matrix interference.
M2	The matrix spike (MS) or matrix spike duplicate (MSD) was not within control limits. The associated LCS and/or LCSD was not within control limits. Sample result is estimated.
N1	Sample chromatography does not match the specified TPH standard pattern.
NC	The analyte concentration in the sample exceeded the spike level by a factor of four or greater, spike recovery and limits do not apply.
P	Sample was received without proper preservation according to EPA guidelines.
P1	Temperature of sample storage refrigerator was out of acceptance limits.
P2	The sample was preserved within 24 hours of collection in accordance with EPA 218.6.
P3	Per Client request, sample was composited for volatile analysis. Sample compositing for volatile analysis is not recommended due to potential loss of target analytes. Results may be biased low.
Q1	Analyte Calibration Verification exceeds criteria. The result is estimated.
Q2	Analyte calibration was not verified and the result was estimated.
Q3	Analyte initial calibration was not available or exceeds criteria. The result was estimated.
S	The surrogate recovery was out of control limits due to matrix interference. The associated method blank surrogate recovery was within control limits and the sample data was reported without further clarification.
S1	The associated surrogate recovery was out of control limits; result is estimated.
S2	The surrogate was diluted out due to the presence of high concentrations of target and/or non-target compounds. Surrogate recoveries in the associated batch QC met recovery criteria.
S3	Internal Standard did not meet recovery limits. Analyte concentration is estimated.
T	Sample was extracted/analyzed past the holding time.
T1	Reanalysis was reported past hold time due to failing replicates in the original analysis (BOD only).
T2	Sample was analyzed ASAP but received and analyzed past the 15 minute holding time.
T3	Sample received and analyzed out of hold time per client's request.
T4	Sample was analyzed out of hold time per client's request.
T5	Reanalysis was reported past hold time. The original analysis was within hold time, but not reportable.
T6	Hold time is indeterminable due to unspecified sampling time.
T7	Sample was analyzed past hold time due to insufficient time remaining at time of receipt.

Definitions

DF	Dilution Factor
MDL	Method Detection Limit. Result is reported ND when it is less than or equal to MDL.
ND	Analyte was not detected or was less than the detection limit.
NR	Not Reported. See Report Comments.
RDL	Reporting Detection Limit
TIC	Tentatively Identified Compounds

ENTHALPY ANALYTICAL, INC.
 931 W. Barkley Ave., Orange, CA 92868
 Phone: (714) 771-6900 Fax: (714) 538-1209

Billing: Enthalpy - SoCal
 c/o Montrose Environmental Group
 1 Park Plaza, Suite 1000, Irvine, CA 92614

Chain of Custody Record
 Lab No: 421053
 Page: 1 of 1
 Matrix: A = Air DW = Drinking Water
 FL = Food Liquid FS = Food Solid L = Liquid
 PP = Pure Product S = Solid SeaW = Sea Water
 SW = Swab W = Water WP = Wipe O = Other

Turn Around Time (Rush by advanced notice only)
 Standard: X 3 Day:
 2 Day: Same Day:

Preservatives: 1 = Na₂S₂O₃ 2 = HCl 3 = HNO₃
 4 = H₂SO₄ 5 = NaOH 6 = Other

CUSTOMER INFORMATION				PROJECT INFORMATION				Analysis Request				Test Instructions / Comments		
Company:	Rincon Consultants	Name:	Malibu - Quarterly	Total /Fecal Coliforms - SM 9223 Quantitray	EPA 200.7 (B)	EPA 300.0: Cl,F,I,NO ₂ ,NO ₃ ,SO ₄	TKN; NH ₃ ; Phosphorus	SM 5310C TOC; BOD; TSS; TDS	pH; Residual Cl; MBAS; Turbidity; Color; Odor	EPA 1664A Oil & Grease				
Report To:	Kiernan Brialik	Number:												
Email:	kbrtalik@rinconconsultants.com	P.O. #:	15-01587											
Address:	180 N. Ashwood Ave.	Address:												
Phone:	Ventura, CA 93003	Global ID:												
Cell:		Sampled By:	Michelle Carter											
Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.									
LAMW-55						X	X	X	X	X	X	X	X	MC
SMBRP-9						X	X	X	X	X	X	X	X	MC
SMBRP-11						X	X	X	X	X	X	X	X	MC
SMBRP-12	11/6/19	1200	W			X	X	X	X	X	X	X	X	MC
MCWP-MW04S						X	X	X	X	X	X	X	X	MC
MCWP-MW04D						X	X	X	X	X	X	X	X	MC
MCWP-MW07S	11/6/19	1030	W			X	X	X	X	X	X	X	X	
MCWP-MW07D	11/6/19	1000	W			X	X	X	X	X	X	X	X	
MCWP-MW09	11/6/19	1245	W			X	X	X	X	X	X	X	X	

Signature	Print Name	Company / Title	Date / Time
	MICHELLE CARTER	RINCON CONSULTANTS, INC.	11/6/19 13:46
	Henri Gustavsson	EA	11/6/19 13:46
	Henri Gustavsson	EA	11/6/19 17:20
	Elizabeth Ramirez	EA	11/6/19 17:20



ENTHALPY ANALYTICAL

SAMPLE ACCEPTANCE CHECKLIST

Section 1
 Client: Rincon Consultants Project: Malibu -Quarterly
 Date Received: 11/6/19 Sampler's Name Present: Yes No

Section 2
 Sample(s) received in a cooler? Yes, How many? 2 No (skip section 2) Sample Temp (°C) (No Cooler) : _____
 Sample Temp (°C), One from each cooler: #1: 7.7 #2: 12.4 #3: _____ #4: _____
(Acceptance range is < 6°C but not frozen (for Microbiology samples, acceptance range is < 10°C but not frozen). It is acceptable for samples collected the same day as sample receipt to have a higher temperature as long as there is evidence that cooling has begun.)
 Shipping Information: _____

Section 3
 Was the cooler packed with: Ice Ice Packs Bubble Wrap Styrofoam
 Paper None Other _____
 Cooler Temp (°C): #1: 1.8 #2: 0.5 #3: _____ #4: _____

Section 4	YES	NO	N/A
Was a COC received?	✓		
Are sample IDs present?	✓		
Are sampling dates & times present?	✓		
Is a relinquished signature present?	✓		
Are the tests required clearly indicated on the COC?	✓		
Are custody seals present?		✓	
If custody seals are present, were they intact?			✓
Are all samples sealed in plastic bags? (Recommended for Microbiology samples)	✓		
Did all samples arrive intact? If no, indicate in Section 4 below.	✓		
Did all bottle labels agree with COC? (ID, dates and times)	✓		
Were the samples collected in the correct containers for the required tests?	✓		
Are the containers labeled with the correct preservatives?	✓		
Is there headspace in the VOA vials greater than 5-6 mm in diameter?			✓
Was a sufficient amount of sample submitted for the requested tests?	✓		

Section 5 Explanations/Comments

Section 6
 For discrepancies, how was the Project Manager notified? Verbal PM Initials: _____ Date/Time _____
 Email (email sent to/on): _____ / _____
 Project Manager's response:

Completed By: [Signature] Date: 11/6/19.



Enthalpy Analytical, LLC

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Client: Rincon Consultants - Ventura
Address: 180 North Ashwood Ave.
Ventura, CA 93003

Attn: Kiernan Brtalik

Comments: Malibu-Quarterly
PO# 15-01587

Lab Request: 421139
Report Date: 11/14/2019
Date Received: 11/07/2019
Client ID: 15888

This laboratory request covers the following listed samples which were analyzed for the parameters indicated on the attached Analytical Result Report. All analyses were conducted using the appropriate methods. Methods accredited by NELAC are indicated on the report. This cover letter is an integral part of the final report.

Sample # **Client Sample ID**

421139-001 MCWP-MW04D

Thank you for the opportunity to be of service to your company. Please feel free to call if there are any questions regarding this report or if we can be of further service.

Report Review performed by: Ranjit Clarke, Project Manager

NOTE: Unless notified in writing, all samples will be discarded by appropriate disposal protocol 45 days from date received.

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Matrix: Water	Client: Rincon Consultants - Ventura	Collector: Client
Sampled: 11/07/2019 12:45	Site:	
Sample #: <u>421139-001</u>	Client Sample #: MCWP-MW04D	Sample Type:

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed By	Notes
Method: ALCH 4023 Prep Method: None							QCBatchID:	
Total Inorganic Nitrogen	1.61	1	0.04	0.1	mg/L		11/14/19	SLL
Method: ALCH 4024 Prep Method: None							QCBatchID:	
Total Organic Nitrogen	ND	1	0.04	0.5	mg/L		11/14/19	SLL
Method: EPA 1664A Prep Method: Method							QCBatchID: QC1208707	
Total Oil and Grease	2.3 J	1.11	1.554	5.55	mg/L	11/12/19	11/12/19	EC J
Method: EPA 200.7 Prep Method: EPA 200.7							QCBatchID: QC1208576	
Boron	0.827	1	0.03	0.05	mg/L		11/08/19	SBW
Method: EPA 300.0 Prep Method: Method							QCBatchID: QC1208658	
Chloride	258	10	0.86	10	mg/L	11/07/19	11/11/19 05:54	JP
Nitrate, as Nitrogen	1.61	1	0.012	0.1	mg/L	11/07/19	11/08/19 03:06	JP
Nitrite, as Nitrogen	ND	1	0.018	0.1	mg/L	11/07/19	11/08/19 03:06	JP
Sulfate	515	10	0.77	10	mg/L	11/07/19	11/11/19 05:54	JP
Method: EPA 351.2 Prep Method: Method							QCBatchID: QC1208789	
Total Kjeldahl Nitrogen	ND	1	0.052	0.4	mg/L	11/13/19	11/14/19	TP
Method: SM 2120-B Prep Method: Method							QCBatchID: QC1208594	
Color	ND	1	5	5	Color Unit		11/08/19 14:00	WW
Method: SM 2130-B Prep Method: Method							QCBatchID: QC1208592	
Turbidity	0.67	1	0.074	0.1	NTU		11/08/19 14:00	WW
Method: SM 2150-B Prep Method: Method							QCBatchID: QC1208595	
Odor Threshold	ND	1	1	1	T.O.N		11/08/19 14:00	WW
Method: SM 2540-C Prep Method: Method							QCBatchID: QC1208589	
Total Dissolved Solids	1490	2	20	20	mg/L	11/08/19	11/09/19	TP
Method: SM 2540-D Prep Method: SM 2540-D							QCBatchID: QC1208679	
Total Suspended Solids	ND	1.11	0.555	0.555	mg/L	11/11/19	11/11/19	NP
Method: SM 4500-Cl Prep Method: Method							QCBatchID: QC1208591	
Chlorine, Total Residual	0.05 J	1	0.016	0.1	mg/L		11/08/19 14:44	WW J,T2
Method: SM 4500-H+B Prep Method: Method							QCBatchID: QC1208581	
pH	7.02	1			SU	11/08/19 00:00	11/08/19 09:01	WW T2
Temp. at Time of pH Measurement	10.6	1			°C	11/08/19 00:00	11/08/19 09:01	WW
Method: SM 4500-NH3-G Prep Method: Method							QCBatchID: QC1208712	
Ammonia, as Nitrogen	ND	1	0.01	0.1	mg/L	11/12/19	11/13/19	TP
Method: SM 4500-P-B-5-E Prep Method: 4500-P-B-5							QCBatchID: QC1208705	
Total Phosphorous as P	0.071	1	0.01	0.02	mg/L	11/12/19	11/12/19	TP
Total Phosphorous as PO4	0.218	1	0.03	0.06	mg/L	11/12/19	11/12/19	TP
Method: SM 5210-B Prep Method: Method/5day							QCBatchID: QC1208579	
BOD	ND	1	3	3	mg/L	11/08/19	11/08/19 09:01	WW BQ2
Method: SM 5310B Prep Method: Method							QCBatchID: QC1208825	
Total Organic Carbon (TOC)	8.48	1	0.091	1	mg/L	11/14/19	11/14/19	TP
Method: SM 5540-C Prep Method: Method							QCBatchID: QC1208605	
MBAS	ND	1	0.027	0.04	mg/L	11/08/19 11:00	11/08/19 18:07	NP
Method: sm 9223-B-b Prep Method: Method							QCBatchID: QC1208568	
Fecal Coliform	<1	1			MPN/100ml	11/07/19 19:11	11/08/19	LH
Total Coliform	<1	1			MPN/100ml	11/07/19 19:11	11/08/19	LH

QCBatchID: QC1208576	Analyst: rvenegas	Method: EPA 200.7
Matrix: Water	Analyzed: 11/08/2019	Instrument: AAICP (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1208576MB1					
Boron	ND	mg/L	0.03	0.05	
Cadmium	ND	mg/L	0.002	0.005	
Calcium	ND	mg/L	0.093	0.1	
Chromium	ND	mg/L	0.002	0.01	
Copper	ND	mg/L	0.008	0.01	
Iron	ND	mg/L	0.019	0.02	
Lead	0.009 J	mg/L	0.007	0.01	
Magnesium	ND	mg/L	0.046	0.1	
Nickel	ND	mg/L	0.004	0.01	
Silver	ND	mg/L	0.005	0.005	
Sodium	ND	mg/L	0.119	0.5	
Zinc	ND	mg/L	0.017	0.05	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount		Spike Result		Units	Recoveries			Limits		Notes
	LCS	LCSD	LCS	LCSD		LCS	LCSD	RPD	%Rec	RPD	
QC1208576LCS1											
Boron	2		1.82		mg/L	91			85-115		
Cadmium	2		1.90		mg/L	95			85-115		
Calcium	20		19.8		mg/L	99			85-115		
Chromium	2		1.78		mg/L	89			85-115		
Copper	2		1.74		mg/L	87			85-115		
Iron	2		1.83		mg/L	92			85-115		
Lead	2		1.92		mg/L	96			85-115		
Magnesium	20		19.5		mg/L	98			85-115		
Nickel	2		1.74		mg/L	87			85-115		
Silver	2		1.76		mg/L	88			85-115		
Sodium	20		21.3		mg/L	107			85-115		
Zinc	2		1.72		mg/L	86			85-115		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount		Spike Result		Units	Recoveries			Limits		Notes
		MS	MSD	MS	MSD		MS	MSD	RPD	%Rec	RPD	
QC1208576MS1												
Boron	0.827	1		1.89		mg/L	106			75-125		
Cadmium	ND	1		0.839		mg/L	84			75-125		
Calcium	160	20		191		mg/L	155			75-125		NC
Chromium	ND	1		0.932		mg/L	93			75-125		
Copper	ND	1		0.940		mg/L	94			75-125		
Iron	0.051	1		1.05		mg/L	100			75-125		
Lead	ND	1		0.847		mg/L	85			75-125		
Magnesium	107	20		140		mg/L	165			75-125		NC
Nickel	ND	1		0.859		mg/L	86			75-125		
Silver	ND	1		0.829		mg/L	83			75-125		
Sodium	206	20		235		mg/L	145			75-125		NC
Zinc	ND	1		0.897		mg/L	90			75-125		

QCBatchID: <u>QC1208579</u>	Analyst: npham	Method: SM 5210-B
Matrix: Water	Analyzed: 11/08/2019	Instrument: CHEM (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1208579MB1					
BOD	ND	mg/L	3	3	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount		Spike Result		Units	Recoveries			Limits		Notes
	LCS	LCSD	LCS	LCSD		LCS	LCSD	RPD	%Rec	RPD	
QC1208579LCS1											
BOD	198		203		mg/L	103			84.6-115.4		

QC Batch ID: **QC1208581**

Analyst: npham

Method: SM 4500-H+B

Matrix: Water

Analyzed: 11/08/2019

Instrument: CHEM (group)

Duplicate Summary

Analyte	Sample Amount	Duplicate Amount	Units	RPD	Limits RPD	Notes
QC1208581DUP1						Source: 421139-001
pH	7.02	7.00	SU	0.3	20	
Temp. at Time of pH Measurement	10.6	10.5	°C	0.9	20	

QCBatchID: <u>QC1208589</u>	Analyst: npham	Method: SM 2540-C
Matrix: Water	Analyzed: 11/09/2019	Instrument: CHEM (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1208589MB1					
Total Dissolved Solids	ND	mg/L	10	10	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount		Spike Result		Units	Recoveries			Limits		Notes
	LCS	LCSD	LCS	LCSD		LCS	LCSD	RPD	%Rec	RPD	
QC1208589LCS1											
Total Dissolved Solids	95		97.0		mg/L	102			90-110		

QCBatchID: <u>QC1208591</u>	Analyst: npham	Method: SM 4500-Cl
Matrix: Water	Analyzed: 11/08/2019	Instrument: CHEM (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1208591MB1					
Chlorine, Total Residual	ND	mg/L	0.016	0.1	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount		Spike Result		Units	Recoveries			Limits		Notes
	LCS	LCSD	LCS	LCSD		LCS	LCSD	RPD	%Rec	RPD	
QC1208591LCS1											
Chlorine, Total Residual	1		1.04		mg/L	104			80-120		

Duplicate Summary

Analyte	Sample Amount	Duplicate Amount	Units	RPD	Limits RPD	Notes
QC1208591DUP1						
Chlorine, Total Residual	ND	ND	mg/L	0.0	20	Source: 421153-001

QCBatchID: **QC1208592**

Analyst: npham

Method: SM 2130-B

Matrix: Water

Analyzed: 11/08/2019

Instrument: CHEM (group)

Duplicate Summary

Analyte	Sample Amount	Duplicate Amount	Units	RPD	Limits RPD	Notes
QC1208592DUP1						Source: 421153-001
Turbidity	0.21	0.21	NTU	0.0	20	

QCBatchID: **QC1208594**

Analyst: npham

Method: SM 2120-B

Matrix: Water

Analyzed: 11/08/2019

Instrument: CHEM (group)

Duplicate Summary

Analyte	Sample Amount	Duplicate Amount	Units	RPD	Limits RPD	Notes
QC1208594DUP1						Source: 421139-001
Color	ND	ND	Color Unit	0.0	20	

QCBatchID: **QC1208595**

Analyst: npham

Method: SM 2150-B

Matrix: Water

Analyzed: 11/08/2019

Instrument: CHEM (group)

Duplicate Summary

Analyte	Sample Amount	Duplicate Amount	Units	RPD	Limits RPD	Notes
QC1208595DUP1						Source: 421139-001
Odor Threshold	ND	ND	T.O.N	0.0	20	

QCBatchID: QC1208605	Analyst: npham	Method: SM 5540-C
Matrix: Water	Analyzed: 11/08/2019	Instrument: CHEM (group)

Blank Summary						
Analyte	Blank Result	Units	MDL	RDL	Notes	
QC1208605MB1						
MBAS	ND	mg/L	0.027	0.04		

Lab Control Spike/ Lab Control Spike Duplicate Summary											
Analyte	Spike Amount		Spike Result		Units	Recoveries			Limits		Notes
	LCS	LCSD	LCS	LCSD		LCS	LCSD	RPD	%Rec	RPD	
QC1208605LCS1											
MBAS	1		1.0		mg/L	100			80-120		

Matrix Spike/Matrix Spike Duplicate Summary												
Analyte	Sample Amount	Spike Amount		Spike Result		Units	Recoveries			Limits		Notes
		MS	MSD	MS	MSD		MS	MSD	RPD	%Rec	RPD	
QC1208605MS1, QC1208605MSD1											Source: 421153-001	
MBAS	ND	1	1	0.95	0.95	mg/L	95	95	0.0	75-125	20	

QCBatchID: QC1208658	Analyst: JParedes	Method: EPA 300.0
Matrix: Water	Analyzed: 11/07/2019	Instrument: AAICP (group)

Blank Summary						
Analyte	Blank Result	Units	MDL	RDL	Notes	
QC1208658MB1						
Bromide	ND	mg/L	0.034	0.3		
Chloride	ND	mg/L	0.086	1		
Nitrate, as Nitrogen	ND	mg/L	0.012	0.1		
Nitrite, as Nitrogen	ND	mg/L	0.018	0.1		
Sulfate	ND	mg/L	0.077	0.5		

Lab Control Spike/ Lab Control Spike Duplicate Summary											
Analyte	Spike Amount		Spike Result		Units	Recoveries			Limits		Notes
	LCS	LCSD	LCS	LCSD		LCS	LCSD	RPD	%Rec	RPD	
QC1208658LCS1											
Bromide	15		14.7		mg/L	98			90-110		
Chloride	100		107		mg/L	107			90-110		
Nitrate, as Nitrogen	9.03		9.50		mg/L	105			90-110		
Nitrite, as Nitrogen	9.15		9.34		mg/L	102			90-110		
Sulfate	50		51.7		mg/L	103			90-110		

Matrix Spike/Matrix Spike Duplicate Summary												
Analyte	Sample Amount	Spike Amount		Spike Result		Units	Recoveries			Limits		Notes
		MS	MSD	MS	MSD		MS	MSD	RPD	%Rec	RPD	
QC1208658MS1, QC1208658MSD1												Source: 421069-001
Bromide	0.156	15	15	15.0	15.2	mg/L	99	100	1.3	80-120	20	
Chloride	74.3	100	100	169	170	mg/L	95	96	0.6	80-120	20	
Nitrate, as Nitrogen	ND	9.03	9.03	9.74	9.76	mg/L	108	108	0.2	80-120	20	
Nitrite, as Nitrogen	ND	9.15	9.15	8.57	8.56	mg/L	94	94	0.1	80-120	20	
Sulfate	16.5	50	50	67.2	67.7	mg/L	101	102	0.7	80-120	20	

QC BatchID: QC1208679	Analyst: npham	Method: SM 2540-D
Matrix: Water	Analyzed: 11/11/2019	Instrument: CHEM (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1208679MB1					
Total Suspended Solids	ND	mg/L	0.5	0.5	

Duplicate Summary

Analyte	Sample Amount	Duplicate Amount	Units	RPD	Limits RPD	Notes
QC1208679DUP1						Source: 420926-005
Total Suspended Solids	648	636	mg/L	1.9	5	

QCBatchID: QC1208705	Analyst: trinh	Method: SM 4500-P-B-5-E
Matrix: Water	Analyzed: 11/12/2019	Instrument: CHEM (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1208705MB1					
Total Phosphorous as P	ND	mg/L	0.01	0.02	
Total Phosphorous as PO4	ND	mg/L	0.03	0.06	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount		Spike Result		Units	Recoveries			Limits		Notes
	LCS	LCSD	LCS	LCSD		LCS	LCSD	RPD	%Rec	RPD	
QC1208705LCS1											
Total Phosphorous as P	0.4		0.362		mg/L	91			80-120		
Total Phosphorous as PO4	1.23		1.110		mg/L	90			80-120		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount		Spike Result		Units	Recoveries			Limits		Notes
		MS	MSD	MS	MSD		MS	MSD	RPD	%Rec	RPD	
QC1208705MS1, QC1208705MSD1												
Total Phosphorous as P	0.032	0.4	0.4	0.453	0.455	mg/L	105	106	0.4	75-125	20	
Total Phosphorous as PO4	0.098	1.23	1.23	1.389	1.395	mg/L	105	105	0.4	75-125	20	

Source: 420981-003

QCBatchID: <u>QC1208707</u>	Analyst: npham	Method: EPA 1664A
Matrix: Water	Analyzed: 11/12/2019	Instrument: CHEM (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1208707MB1					
Non-Polar Oil and Grease	ND	mg/L	0.8	5	
Total Oil and Grease	ND	mg/L	1.4	5	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount		Spike Result		Units	Recoveries			Limits		Notes
	LCS	LCSD	LCS	LCSD		LCS	LCSD	RPD	%Rec	RPD	
QC1208707LCS1, QC1208707LCSD1											
Non-Polar Oil and Grease	20	20	14.9	16.0	mg/L	75	80	7	64-132	34	
Total Oil and Grease	40	40	34.3	38.9	mg/L	86	97	13	78-114	18	

QCBatchID: QC1208712	Analyst: trinh	Method: SM 4500-NH3-G
Matrix: Water	Analyzed: 11/13/2019	Instrument: CHEM (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1208712MB1					
Ammonia, as Nitrogen	ND	mg/L	0.01	0.1	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount		Spike Result		Units	Recoveries			Limits		Notes
	LCS	LCSD	LCS	LCSD		LCS	LCSD	RPD	%Rec	RPD	
QC1208712LCS1											
Ammonia, as Nitrogen	2.5		2.45		mg/L	98			80-120		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount		Spike Result		Units	Recoveries			Limits		Notes
		MS	MSD	MS	MSD		MS	MSD	RPD	%Rec	RPD	
QC1208712MS1, QC1208712MSD1												
Ammonia, as Nitrogen	0.030	5	5	4.76	4.76	mg/L	95	95	11.7	80-120	20	Source: 421170-001

QCBatchID: QC1208789	Analyst: jbankhardt	Method: EPA 351.2
Matrix: Water	Analyzed: 11/14/2019	Instrument: CHEM (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1208789MB1					
Total Kjeldahl Nitrogen	ND	mg/L	0.052	0.4	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount		Spike Result		Units	Recoveries			Limits		Notes
	LCS	LCSD	LCS	LCSD		LCS	LCSD	RPD	%Rec	RPD	
QC1208789LCS1											
Total Kjeldahl Nitrogen	2.5		2.6		mg/L	104			80-120		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount		Spike Result		Units	Recoveries			Limits		Notes
		MS	MSD	MS	MSD		MS	MSD	RPD	%Rec	RPD	
QC1208789MS1, QC1208789MSD1												
Total Kjeldahl Nitrogen	ND	12.5	12.5	13	12	mg/L	104	96	8.0	80-120	20	Source: 421045-004

QCBatchID: QC1208825	Analyst: trinh	Method: SM 5310B
Matrix: Water	Analyzed: 11/14/2019	Instrument: CHEM (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1208825MB1					
Total Organic Carbon (TOC)	ND	mg/L	0.091	1	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount		Spike Result		Units	Recoveries			Limits		Notes
	LCS	LCSD	LCS	LCSD		LCS	LCSD	RPD	%Rec	RPD	
QC1208825LCS1											
Total Organic Carbon (TOC)	10		8.63		mg/L	86			80-120		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount		Spike Result		Units	Recoveries			Limits		Notes
		MS	MSD	MS	MSD		MS	MSD	RPD	%Rec	RPD	
QC1208825MS1, QC1208825MSD1												
Total Organic Carbon (TOC)	8.48	20	20	22.0	22.4	mg/L	68	70	1.8	80-120	20	M

Source: 421139-001

Data Qualifiers and Definitions

Qualifiers

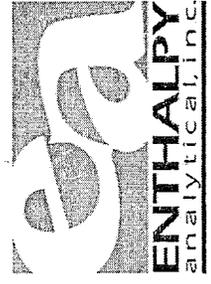
A	See Report Comments.
B	Analyte was present in an associated method blank.
B1	Analyte was present in a sample and associated method blank greater than MDL but less than RDL.
BQ1	No valid test replicates. Sample Toxicity is possible. Best result was reported.
BQ2	No valid test replicates.
BQ3	No valid test replicates. Final DO is less than 1.0 mg/L. Result may be greater.
BQ4	Minor Dissolved Oxygen loss was observed in the blank water check, however, the LCS was within criteria, validating the batch.
BQ5	Minor Dissolved Oxygen loss was observed in the blank water check.
C	Possible laboratory contamination.
D	RPD was not within control limits. The sample data was reported without further clarification.
D1	Lesser amount of sample was used due to insufficient amount of sample supplied.
D2	Reporting limit is elevated due to sample matrix. Target analyte was not detected above the elevated reporting limit.
D3	Insufficient sample was supplied for TCLP. Client was notified. TCLP was performed per the Client's instructions.
DW	Sample result is calculated on a dry weigh basis.
E	Concentration is estimated because it exceeds the quantification limits of the method.
I	The sample was read outside of the method required incubation period.
IR	Inconclusive Result. Legionella is present, however, there is possible non-specific agglutination preventing specific identification.
J	Reported value is estimated
L	The laboratory control sample (LCS) or laboratory control sample duplicate (LCSD) was out of control limits. Associated sample data was reported with qualifier.
L2	LCS did not meet recovery criteria, however, the MS and/or MSD met LCS recovery criteria, validating the batch.
M	The matrix spike (MS) or matrix spike duplicate (MSD) was not within control limits due to matrix interference. The associated LCS and/or LCSD was within control limits and the sample data was reported without further clarification.
M1	The matrix spike (MS) or matrix spike duplicate (MSD) is not within control limits due to matrix interference.
M2	The matrix spike (MS) or matrix spike duplicate (MSD) was not within control limits. The associated LCS and/or LCSD was not within control limits. Sample result is estimated.
N1	Sample chromatography does not match the specified TPH standard pattern.
NC	The analyte concentration in the sample exceeded the spike level by a factor of four or greater, spike recovery and limits do not apply.
P	Sample was received without proper preservation according to EPA guidelines.
P1	Temperature of sample storage refrigerator was out of acceptance limits.
P2	The sample was preserved within 24 hours of collection in accordance with EPA 218.6.
P3	Per Client request, sample was composited for volatile analysis. Sample compositing for volatile analysis is not recommended due to potential loss of target analytes. Results may be biased low.
Q1	Analyte Calibration Verification exceeds criteria. The result is estimated.
Q2	Analyte calibration was not verified and the result was estimated.
Q3	Analyte initial calibration was not available or exceeds criteria. The result was estimated.
S	The surrogate recovery was out of control limits due to matrix interference. The associated method blank surrogate recovery was within control limits and the sample data was reported without further clarification.
S1	The associated surrogate recovery was out of control limits; result is estimated.
S2	The surrogate was diluted out due to the presence of high concentrations of target and/or non-target compounds. Surrogate recoveries in the associated batch QC met recovery criteria.
S3	Internal Standard did not meet recovery limits. Analyte concentration is estimated.
T	Sample was extracted/analyzed past the holding time.
T1	Reanalysis was reported past hold time due to failing replicates in the original analysis (BOD only).
T2	Sample was analyzed ASAP but received and analyzed past the 15 minute holding time.
T3	Sample received and analyzed out of hold time per client's request.
T4	Sample was analyzed out of hold time per client's request.
T5	Reanalysis was reported past hold time. The original analysis was within hold time, but not reportable.
T6	Hold time is indeterminable due to unspecified sampling time.
T7	Sample was analyzed past hold time due to insufficient time remaining at time of receipt.

Definitions

DF	Dilution Factor
MDL	Method Detection Limit. Result is reported ND when it is less than or equal to MDL.
ND	Analyte was not detected or was less than the detection limit.
NR	Not Reported. See Report Comments.
RDL	Reporting Detection Limit
TIC	Tentatively Identified Compounds

ENTHALPY ANALYTICAL, INC.
 931 W. Barkley Ave., Orange, CA 92868
 Phone: (714) 771-6900 Fax: (714) 538-1209

Billing: Enthalpy - SoCal
 c/o Montrose Environmental Group
 1 Park Plaza, Suite 1000, Irvine, CA 92614



Chain of Custody Record
 Lab No: **421139**
 Page: 1 of 1

Matrix: A = Air DW = Drinking Water
 FL = Food Liquid FS = Food Solid L = Liquid
 PP = Pure Product S = Solid SeaW = Sea Water
 SW = Swab W = Water WP = Wipe O = Other

Turn Around Time (Rush by advanced notice only)
 Standard: X
 4 Day: 1 Day:
 3 Day: Same Day:

Preservatives: 1 = Na₂S₂O₃ 2 = HCl 3 = HNO₃
 4 = H₂SO₄ 5 = NaOH 6 = Other

CUSTOMER INFORMATION				PROJECT INFORMATION				Analysis Request				Test Instructions / Comments					
Company:	Rincon Consultants	Name:	Malibu - Quarterly/Semi-Annual	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Total / Fecal Coliforms - SM 9223 Quantray	EPA 200.7 (B)	EPA 300.0: Cl, NO ₂ , NO ₃ , SO ₄	TKN; NH ₃ ; Phosphorus	pH; Residual Cl; MBAS; Turbidity; Color; Odor	EPA 1664A Oil & Grease	Organic Nitrogen, Total Nitrogen	
Report To:	Kiernan Britalik	Number:								*	*	*	*	*	*	*	
Email:	kbrtalik@rinconconsultants.com	P.O. #:	15-01587							*	*	*	*	*	*	*	
Address:	180 N. Ashwood Ave.	Address:								*	*	*	*	*	*	*	
Phone:	Ventura, CA 93003	Global ID:								*	*	*	*	*	*	*	
Cell:		Sampled By:								*	*	*	*	*	*	*	
LAMW-55										X	X	X	X	X	X	X	MC
SMBRP-9										X	X	X	X	X	X	X	MC
SMBRP-11										X	X	X	X	X	X	X	MC
SMBRP-12										X	X	X	X	X	X	X	MC
MCWP-MW04S										X	X	X	X	X	X	X	MC
MCWP-MW04D				11/7/19	1245		W			X	X	X	X	X	X	X	MC
MCWP-MW07S										X	X	X	X	X	X	X	MC
MCWP-MW07D										X	X	X	X	X	X	X	MC
MCWP-MW09										X	X	X	X	X	X	X	MC

Signature	Print Name	Company / Title	Date / Time
	MICHELLE CARTER	RINCON CONSULTANTS, INC.	11/7/19 / 15:43
	Henri Gutierrez	EA	11/7/19 / 15:44
	Henri Gutierrez	EA	11/7/19 / 19:14
	G. Klein	EA	11/7/19 / 19:14



ENTHALPY ANALYTICAL

SAMPLE ACCEPTANCE CHECKLIST

Section 1

Client: Rincon Consultants

Project: Malibu Quarterly

Date Received: 11/7/19

Sampler's Name Present: Yes No

Section 2

Sample(s) received in a cooler? Yes, How many? 1 No (skip section 2)

Sample Temp (°C)
(No Cooler): _____

Sample Temp (°C), One from each cooler: #1: 4.6 #2: _____ #3: _____ #4: _____

(Acceptance range is < 6°C but not frozen (for Microbiology samples, acceptance range is < 10°C but not frozen). It is acceptable for samples collected the same day as sample receipt to have a higher temperature as long as there is evidence that cooling has begun.)

Shipping Information: _____

Section 3

Was the cooler packed with: Ice Ice Packs Bubble Wrap Styrofoam
 Paper None Other _____

Cooler Temp (°C): #1: 1.4 #2: _____ #3: _____ #4: _____

Section 4

	YES	NO	N/A
Was a COC received?	✓		
Are sample IDs present?	✓		
Are sampling dates & times present?	✓		
Is a relinquished signature present?	✓		
Are the tests required clearly indicated on the COC?	✓		
Are custody seals present?		✓	
If custody seals are present, were they intact?			✓
Are all samples sealed in plastic bags? (Recommended for Microbiology samples)	✓		
Did all samples arrive intact? If no, indicate in Section 4 below.	✓		
Did all bottle labels agree with COC? (ID, dates and times)	✓		
Were the samples collected in the correct containers for the required tests?	✓		
Are the containers labeled with the correct preservatives?	✓		
Is there headspace in the VOA vials greater than 5-6 mm in diameter?			✓
Was a sufficient amount of sample submitted for the requested tests?	✓		

Section 5 Explanations/Comments

Section 6

For discrepancies, how was the Project Manager notified? Verbal PM Initials: _____ Date/Time _____
 Email (email sent to/on): _____ / _____

Project Manager's response: _____

Completed By:  Date: 11/7/19