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JARED BLUMENFELD SECRETARY FOR ENVIRONMENTAL PROTECTION

State Water Resources Control Board Division of Drinking Water

June 11, 2019

Mr. Louis A. Atwell, P.E. Public Works Director Public Works Department City of Inglewood One Manchester Boulevard P.O. Box 6500, 3rd Floor Inglewood, CA 90301-1750

Dear Mr. Atwell:

SYSTEM NO. 1910051 - WATER SUPPLY PERMIT AMENDMENT 1910051PA-002

Please find enclosed the domestic water supply permit amendment (No. 1910051PA-002), dated June 11, 2019, and accompanying engineering report issued to the City of Inglewood to operate a new well, Well 7 and treat it at the Sanford M. Anderson Water Treatment Plant.

A public water system may file with the State Water Resources Control Board (State Water Board) a petition for reconsideration of a decision by the Deputy Director to issue, deny or amend a permit. Petitions must be received by the State Water Board within 30 calendar days of the issuance of the permit, permit amendment or decision. The date of issuance is the date when the Division of Drinking Water mails or serves a copy of the permit, permit amendment, or decision, whichever occurs first. If the 30th day falls on a Saturday, Sunday, or state holiday, the petition is due the following business day. Petitions must be received by 5:00 p.m. Information regarding filing petitions may be found at: http://www.waterboards.ca.gov/drinking_water/programs/petitions/index.shtml

Please acknowledge receipt of this permit amendment and your willingness to comply with the permit conditions in writing within 30 days. If you have any questions, please contact Karen Wong at (818) 551-2037.

E. JOAQUIN ESQUIVEL, CHAIR | EILEEN SOBECK, EXECUTIVE DIRECTOR

500 North Central Avenue, Suite 500, Glendale, CA 91203 | www.waterboards.ca.gov

Sincerely,

Chi Diep, P.E. District Engineer Metropolitan District

Cc: Thomas Lee, P.E. Associate Engineer City of Inglewood

PERMIT AMENDMENT NO. 1910051PA-002

City of Inglewood

Los Angeles County System No. 1910051

June 11, 2019



STATE WATER RESOURCES CONTROL BOARD DIVISION OF DRINKING WATER

STATE OF CALIFORNIA

AMENDMENT TO THE

DOMESTIC WATER SUPPLY PERMIT ISSUED TO

City of Inglewood Public Water System - 1910051

ORIGINAL PERMIT: Not Numbered

PERMIT AMENDMENT:	Not Numbered
PERMIT AMENDMENT:	Not Numbered
PERMIT AMENDMENT:	1910051PA-001
PERMIT AMENDMENT:	Not Numbered
PERMIT AMENDMENT:	1910051PA-002

DATE OF ISSUE: 06/18/65 REVISED: 12/27/00 EFFECTIVE DATE: 10/07/83 EFFECTIVE DATE: 10/22/90 EFFECTIVE DATE: 04/12/04 EFFECTIVE DATE: 01/17/17 EFFECTIVE DATE: 06/11/19

WHEREAS:

- I. The *City of Inglewood (hereinafter, the City)* submitted an application to the State Water Resources Control Board, Division of Drinking Water (hereinafter, the Division) on *August 28, 2018* for an amendment to the Domestic Water Supply Permit issued to *the City* on *June 18, 1965, revised December 27, 2000.*
- **II.** The purpose of the amendment, as stated in the application, is to allow **the City** to make the following modifications to the public water system:

To operate a new well, Well 7, and treat it at the City's Sanford M. Anderson Water Treatment Plant for iron and manganese removal.

III. The City has submitted all of the supporting information required to evaluate the application.

IV. The Division has evaluated the application and the supporting material and has determined that the proposed modifications comply with all applicable State drinking water requirements.

THEREFORE:

I. The Division hereby approves the application submitted by *the City* for a permit amendment. The Domestic Water Supply Permit issued to *the City* on *December 27, 2000* is hereby amended as follows:

The City may operate Well 7 and treat it at the Sanford M. Anderson Water Treatment Plant.

II. This permit amendment is subject to the following conditions:

GENERAL

- 1. The City shall comply with all the requirements set forth in the California Safe Drinking Water Act, California Health and Safety Code and any regulations, standards, or orders adopted hereunder.
- 2. All water supplied by the City for domestic purposes shall meet all Maximum Contaminant Levels (MCLs) established by the State Water Resources Control Board, Division of Drinking Water. If the water quality does not comply with the California Drinking Water Standards, additional treatment shall be provided to bring the water into compliance with standards.
- 3. The only approved sources of domestic water supply are listed in Tables 1 and 2.

Source	PS Code	Status	Capacity (gpm)
Well 1	1910051-001	Active	600
Well 2	1910051-002	Active	600
Well 4	1910051-013	Active	800
Well 6	1910051-018	Active	1400
Well 7	1910051-019	Active	1500

Table 1.	Approved	Groundwater	Sources
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Sources	PS Code	Status	Capacity (gpm)
MWD WB 17	1910051-017	Active	6600
MWD WB 38	1910051-016	Active	4400

Table 2. Other Sources

4. The only approved treatment facilities are listed in Table 3.

Facility	Treatment	PS Code	Treatment Plant Classification
Sanford M. Anderson Water Treatment Plant	 For manganese and iron removal: Oxidation with KMnO4 Prechlorination to breakpoint, Filtration Postchloramination 	1910051-015 (Influent) 1910051-014 (Efffluent)	T2
North Inglewood Reservoir	Sodium hypochlorite chlorination - to be used for emergencies only		T1
Morningside Reservoir	Sodium hypochlorite chlorination - to be used for emergencies only		T1

Table 3. Approved Treatment Facilities

- 5. No other sources and/or treatment facilities other than those outlined in Provisions 3 and 4 shall be added or used without prior approval from the Division through an amended permit.
- 6. Only personnel who have been certified in accordance with the Operator Certification Regulations, Chapter 13, Title 22, California Code of Regulations (CCR) shall operate the distribution system. The City's distribution system has been classified as a D5 system. Therefore, the designated Chief and Shift distribution operators shall possess minimum grade D5 and D3 certificates, respectively.

 All treatment facilities shall be operated by personnel who have been certified in accordance with the Operator Certification Regulations, Chapter 13, Title 22 of CCR. The classifications for all applicable treatment facilities are listed in Table
 The Sanford M. Anderson Water Treatment Plant has been classified as a T2 treatment facility, which requires minimum grade T2 and T1 certificates for the chief and shift treatment operators, respectively. For the facilities that consist of only disinfection stations, the City may utilize either certified distribution operators or treatment operators that have been trained to operate these facilities.

- 8. All groundwater wells listed in Provision 3 shall be monitored in accordance with the regulations contained in Title 22, CCR, and the most recent Vulnerability Assessment and Monitoring Frequency Guidelines issued by the Division. All results shall be submitted to the Division electronically using the designated PS codes.
- 9. The City shall collect raw water samples prior to disinfection from each active well monthly for total coliform analysis using EPA standard methods unless a higher monitoring frequency is required. If a positive total coliform sample is detected, the sample shall also be analyzed for fecal coliform, or *E. Coli* bacteria. Results shall be submitted to the Division in a summary form by the 10th day of the month, following the month in which the samples were collected.
- 10. The City shall comply with Title 17, CCR, to prevent the water system and treatment facilities from being contaminated by possible cross-connections. The City shall maintain a program for the protection of the domestic water system against backflow from premises having dual or unsafe water systems in accordance with Title 17. All backflow prevention devices shall be tested annually.
- 11. Pursuant to Sections 64590 and 64591, Title 22, CCR, no chemical or product shall be added to drinking water as a part of the treatment process unless it has been certified as meeting the specifications of American National Standard Institute/National Sanitation Foundation (ANSI/NSF) Standard 60, and no indirect additive shall be used unless it has been certified as meeting the specifications of ANSI/NSF Standard 61. The City may use an uncertified chemical, material, or product if the requirements specified in Section 64593 are met, or if an alternative is proposed that meets the requirements in Section 64551.100.

SANFORD M. ANDERSON WATER TREATMENT PLANT

- 12. The City shall operate the Sanford M. Anderson Water Treatment Plant in accordance with its approved Operations and Maintenance Plan with the following operational requirements:
 - a. The Sanford Treatment Plant shall not be operated above its maximum capacity of 8.64 MGD.
 - b. Wells 1, 2, 4, 6, and 7 shall be treated at the Sanford Treatment Plant at all times for iron and manganese removal.

- c. The treated effluent shall comply with the iron and manganese secondary MCLs of 0.3 mg/L and 0.05 mg/L, respectively.
- d. The treated effluent shall be continuously and reliably disinfected to achieve a minimum total chlorine residual of 1.0 mg/L at the entry point of the distribution system.
- e. The Operations and Maintenance Plan should be periodically reviewed and updated as necessary. Any revised plan shall be submitted to the Division for review and approval.
- 13. Compliance with the iron and manganese secondary MCLs shall be based on a monthly average of weekly samples collected at the Sanford Treatment Plant effluent (PS code 1910051-014).
- 14. A monthly compliance report for the Sanford Treatment Plant shall be submitted to the Division by the 10th of the following month. Monitoring for iron, manganese, color, odor, turbidity shall be conducted monthly at Wells 1, 2, 4, 6, and 7 and plant influent (PS code 1910051-015) and weekly at the plant effluent (PS code 1910051-014). All monitoring analyses shall be performed by a State certified laboratory and results transmitted by electronic data transfer (EDT) to the Division.
- 15. The City shall submit an annual report for the water quality data collected from the WRD monitoring wells located in the vicinity of Well 7.
- 16. All instruments, including but not limited to, chemical analyzers and flow meters, shall be calibrated at the frequencies and by the methods recommended by their respective manufacturers. Records for all instrument calibrations shall be maintained by the City, and made available to the Division when requested.
- 17. The City shall maintain an Operator's Log Book to record all activities, events, and problems with the operations of the wells and Sanford Treatment Plant.

This amendment shall be appended to and shall be considered to be an integral part of the Domestic Water Supply Permit issued to the *City of Inglewood* on *June 18, 1965, revised December 27, 2000.*

FOR THE STATE WATER RESOURCES CONTROL BOARD

ma 11, 2019

Chi Diep, P.E., District Engineer Metropolitan District, Los Angeles Region

Engineering Report

For the Consideration of the Amended Permit for The City of Inglewood Serving the City of Inglewood Los Angeles County

June 11, 2019

Southern California Branch Division of Drinking Water State Water Resources Control Board

Prepared By

Karen Wong, P.E.() Associate Sanitary Engineer Metropolitan District

Reviewed and Approved By

Chi Diep, P.È District Engineer Metropolitan District

I. PURPOSE OF REPORT

The City of Inglewood (hereinafter, the City) has submitted an application, dated August 28, 2018, for an amended permit to operate a new well, Well 7. A copy of the permit application is provided in Appendix 1. The purpose of this report is to evaluate the City's proposal, document the sanitary engineering review, and make recommendations regarding the issuance of an amended domestic water supply permit.

II. BRIEF DESCRIPTION OF THE SYSTEM

The City of Inglewood is located in the middle of Los Angeles County and is bounded on the south by the City of Hawthorne and by the City of Los Angeles and Los Angeles County on the other boundaries. The City encompasses approximately 9.2 square miles. The City is comprised of commercial, industrial, and residential zoning. The City currently serves an estimated population of 86,420 through 15,840 active metered service connections. The service area map and hydraulic schematic are provided in Appendix 2 of this report.

The City's source of water supply consists of local groundwater supply in the West Coast Groundwater Basin and imported water from Metropolitan Water District of Southern California (MWD) through its MWD member agency, West Basin Municipal Water District (WBMWD). The City's system consists of five wells (including the City's new well, Well 7), two connections with MWD (WB-17 and WB-38), eight emergency connections (six with Golden State Water Company and two with Los Angeles Department of Water and Power), two reservoirs, three pressure zones, and pump stations (North Inglewood Pump Station and Morningside Pump Station). Groundwater from the City wells is treated for iron and manganese at the City's Sanford M. Anderson Water Treatment Plant (Sanford Treatment Plant) to meet the Secondary MCLs for these two inorganic constituents.

The City is currently operating under a domestic water supply permit issued by the Department of Public Health (Drinking Water Program under the State Water Resources Control Board, Division of Drinking Water) on June 18, 1965 (revised December 27, 2000 and January 11, 2001). The permit and amendment issued to the City are summarized in Table 2-1 below.

Issue Date	Permit No.	Description
06/18/1965	Not Numbered	Full Permit
10/07/1983	Not Numbered	To include the Sanford M. Anderson Treatment Plant to treat groundwater pumped from Wells 1, 2, and 3
10/22/1990	Not Numbered	To operate Well 4, which was to replace Well 3.
12/27/2000	04-15-00P-023	Revised Full Permit
(rev'd 1/11/2001)	· · · · · · · · · · · · · · · · · · ·	

Table 2-1. Permit History

Sources of Information

Information used to prepare this report was obtained from the State Water Resources Control Board, Division of Drinking Water (hereinafter, the Division) files, City personnel, a review of the City's files and records, and a visit to the new facility conducted on May 8, 2019. The investigation, analyses and preparation of this report were conducted by Karen Wong, P.E., Associate Sanitary Engineer with the Division, Metropolitan District, under the supervision of Chi Diep, P.E., Metropolitan District Engineer.

III. INVESTIGATION FINDINGS

A. Description of Well 7

Well 7 is located on a parking lot owned by the City at the northwest corner of Arbor Vitae Street and Grevillea Avenue in the City of Inglewood. Like other City's wells, Well 7 produces groundwater that will require treatment for total dissolved solids, iron, and manganese. Therefore the groundwater from Well 7 along with the other City's wells will be treated for iron and manganese at the City's Sanford Treatment Plant.

The well was drilled in 2018, using the reverse circulation method. The bore hole was drilled to a depth of 716 feet. A 20-inch diameter high strength, low alloy steel casing was installed from 0 to 620 below ground surface (bgs). A 42-inch diameter low carbon steel conductor casing was installed from ground surface to a depth of 50 feet. The well has a 310-foot deep annular seal filled with cement. It is also gravel packed and surface sealed.

The well is screened from 352-410 and 532-581 feet bgs, using a 20-inch diameter high strength low alloy steel well casing with 0.070-inch slot opening. The total length of the screened intervals is 197 feet. The distances to the highest perforation, the static water level and pumping water level are 352, 112, and 208 feet bgs, respectively.

The well has an estimated maximum yield capacity of 1,500 gpm, based on a pump test conducted in May 2018. The well is equipped with a submersible pump, which has a 200-horsepower electric motor with a pumping capacity of 1,500 gpm. The well is also equipped with the appropriate appurtenances such as an inverted and screened air relief valve, casing vent, flow meter, sounding tube, and sampling tap. The well site is fenced and locked to prevent unauthorized access.

The closest sewer line is located approximately 70 feet away from the well. More details on the well are provided on the well diagram and well data sheet in Appendix 3. Per Title 22, Section 64560, the City has provided pump test results, well construction permit issued by the Los Angeles County Health Department, and well completion report. A copy of the pump test results is provided in Appendix 3. Since the well completion report and well construction permit contain confidential information, they will not be attached to this report but will be kept on file with the Division.

One complete set of Title 22 sampling was collected from Well 7 including general mineral, general physical, inorganic, and organic compounds in May 2018 and May 2019. The results indicate that Well 7 water is in compliance with all primary and secondary MCLs except for iron and manganese, which will be treated at the City's Sanford M. Anderson Water Treatment Plant. A copy of the results including general mineral, general physical, inorganic, and organic compounds is attached in Appendix 3.

Bacteriological samples and heterotrophic plate count (HPCs) were also collected on May 2, 2019. The results indicate that the well is absent for coliforms with the HPCs below 500 cfu/ml, as shown in Appendix 3.

Well 7 shall be monitored in accordance with the most recent Vulnerability Assessment and Monitoring Frequency Guidelines (VA Guidelines) for source class code LGLE, which is the code assigned to all of the City's wells. A copy of the VA Guidelines is provided in Appendix 4.

In addition, because Well 7 is a new groundwater well, the City shall complete the following initial monitoring requirements including four (4) consecutive quarters of VOCs, four (4) consecutive quarters of radionuclides, four (4) consecutive quarters of 1,2,3-Trichloropropane (1,2,3-TCP), two (2) samples, five to seven months apart, for perchlorate, and one quarter of all SOCs followed by three consecutive quarters of SOCs that are not waived. More details are provided below.

VOC Monitoring

The City has completed the first quarterly VOCs samples on May 2, 2019 and all results were non-detect. To complete the initial VOCs monitoring requirements, the City shall collect three (3) more consecutive quarterly VOCs samples starting in August 2019.

Radiological Monitoring

In accordance with Title 22, Section 64442 (c), the City shall begin initial radiological monitoring for Well 7, within the first quarter after initiating water service to the public. To date, the City has performed one quarter of monitoring for gross alpha (GA), uranium, radium 226, and radium 228 at Well 7 in May 2019. The City shall complete the initial radiological monitoring requirements by collecting three (3) more consecutive quarterly samples for the analyses of GA, uranium, radium 226, and radium 228.

Subsequent monitoring requirements for these constituents will be determined based on the results of the data collected from this initial monitoring period.

Perchlorate Monitoring

The California perchlorate MCL of 0.006 mg/L became effective on October 18, 2007. To comply with the initial perchlorate monitoring requirement of this regulation for Well 7, the City shall collect two (2) samples, five to seven months apart, with at least one gathered between May 1 and September 30. The first sample was collected on May 2, 2019 and the result was non-detect. The second sample shall be collected between October and December 2019.

SOC Monitoring

The City has completed a quarter of all SOCs samples on May 2, 2019 and all results were non-detect. To complete the initial SOC monitoring requirements, the City shall collect three (3) more consecutive quarterly SOCs samples that were not waived as indicated in the attached VA Guidelines for source class code LGLE starting in August 2019.

Groundwater Rule

In compliance with the Groundwater Rule per CCR, Title 22, Section 141.400, the City is required to perform compliance monitoring to demonstrate 4-log treatment of viruses in lieu of performing the triggered source water monitoring. This requirement will remain unchanged with the addition of Well 7. The City is required to maintain the minimum daily chlorine residual of at least 0.2 mg/L required to achieve the calculated CT value of 3.6 mg-min/L for 4-log treatment of virus at the two (2) 202,500-gallon contact tanks. Monthly reports of the minimum daily disinfectant residual recorded for each day of the month are submitted to the Division on the 10th of the following month.

1,2,3-TCP Monitoring

The State adopted a MCL of 5 ppt for 1,2,3-TCP on December 14, 2017. To comply with the initial 1,2,3-TCP monitoring requirement of this regulation for Well 7, the City shall conduct one year of sampling consisting of four (4) consecutive quarters of sampling. The first quarterly sample was collected on May 2, 2019 and the result was non-detect. The City shall collect three (3) more quarterly samples starting in August 2019 and submit all results to the Division by electronic data transfer (EDT).

Drinking Water Source Assessment and Protection (DWSAP) Program

The Drinking Water Source Assessment for Well 7 was conducted by the City of Inglewood Water Division and Richard C. Slate Associates, LLC, Consulting Groundwater Geologists. A copy is kept on file with the Division. The well is considered to have 'high' physical barrier effectiveness (PBE). The well is considered most vulnerable to 1) dry cleaners, 2) car washers, 3) automobile repair shops, 4) bus terminals, and 5) other building structures in the area.

B. Sanford M. Anderson Water Treatment Plant

In 1975, the Sanford M. Anderson Water Treatment Plant was constructed to treat groundwater pumped from Wells 1, 2, and 3 for high iron and manganese content. Well 3 was later replaced by Well 4 in 1990 while Well 6 was added in 2004. With the addition of the new well, Well 7, the Sanford Treatment Plant with a design capacity of 8.64 MGD or 6,000 gpm will treat all of the City's wells (Wells 1, 2, 4, 6, and 7) to bring iron and manganese levels to compliance with their respective secondary MCLs of 0.3 mg/L and 0.05 mg/L.

The Sanford Treatment Plant consists of potassium permanganate oxidation and prechlorination, gravity filtration through dual-media filters consisting of manganese greensand and anthracite coal, and post-chloramination. The treated water will be stored in an underground 834,000-gallon clearwell prior to being pumped to North Inglewood Reservoir and Morningside Reservoir. On the Morningside direction, however, since Morningside Reservoir has been out of service since 2009 due to structural problems, the treated water would get mixed directly with purchased MWD water from WB-17 at the mixing chamber. From there, the treated water is distributed to serve Inglewood Pressure Zone 3. Currently there is no transmission line directly connected to Morningside Reservoir because there is no plan in place to repair or rehabilitate the reservoir. However, the City may consider demolishing the Morningside Reservoir and building a new reservoir of smaller scale at the same location. A schematic of the Sanford Treatment Plant and treatment plant data sheet are provided in Appendix 2.

Potassium Permanganate Oxidation and Pre-Chlorination

Water from the five wells enters the plant through a 27-inch transmission main before being equally distributed into two (2) 202,500-gallon contact tanks. Prior to entering the contact tanks, potassium permanganate (KMnO₄), used as an oxidant and for the regeneration of greensand, is injected into the plant influent line at two (2) percent strength. The permanganate dosage will be adjusted periodically according to iron and manganese concentrations in the influent and based upon jar testing results. The chlorine injection point is located immediately downstream, approximately 20 feet, of the KMnO₄ injection point. Chlorine is injected as another oxidant to achieve breakpoint chlorination.

Filtration

Six (6) dual-media filters, each with a surface area of 242 ft² (11 feet by 22 feet), are provided for the filtration process. The filtration rate at the maximum design capacity is 4 gpm/ft² with all the filters in service, and 5.0 gpm/ft² with one filter out of service for backwash. The filter media consist of 18 inches of anthracite coal on top of 18 inches of manganese greensand, with a support medium of 15 inches of graded gravel. The

filters are gravity fed at a constant rate with equal flow distribution to each filter through circular adjustable weirs installed on the filter inlet pipes. The filter backwash (surface wash will also be included whenever the backwash is activated) can be controlled either automatically based on high turbidity (0.5 NTU), high head loss (10 feet), elapsed time since last completed backwash (120 hours) or manually through a computer command by the operator.

Post-Chloramination Facilities

A 1,500-gallon aqua ammonia storage tank, and three (3) feed pumps are utilized at the Sanford Treatment Plant. These pumps are rated at 1 to 20.6 gallons per day. The 21.17° BE aqua ammonia at 19 percent strength is injected in the compartment downstream of the treated (filtered) water level control weirs. The current ammonia-nitrogen dosage rate is about 0.7 mg/L, which is about a 5 to 1 ratio of chlorine to ammonia-nitrogen.

Clearwell, Plant Effluent Pumping Station, and other Facilities

After chloramination, the filtered water flows through an existing transfer pump station (which connects to six (6) vessels of sodium zeolite softener that are no longer being use) and enters the plant clearwell. The clearwell, which has a storage capacity of 834,000 gallons, is located beneath the administration and chemical building at the plant. The total chlorine residual in the water is continuously monitored by a Wallace and Tiernan automatic residual analyzer-SCADA monitored at two (2) locations, the inlet to the clearwell and the plant's outlet. The water level in the clearwell is also closely monitored because the water for backwashing the filters is drawn from the clearwell. The backwash pump operation will be terminated if the clearwell water level is below the low-level set point. Upon exiting the plant clearwell, the treated water is pumped to the Morningside and North Inglewood pressure regulating stations. From there the water is introduced into the distribution system.

Monitoring

The City collects samples for iron, manganese, color, odor, turbidity monthly at the wells and plant influent and weekly at the plant effluent (clearwell). All results are submitted to the Division in a monthly report and by EDT on the 10th of the following month.

C. Treatment Classification

Although Well 7 will bring in an additional capacity of 1,500 gpm to the Sanford Treatment Plant, the Sanford Treatment Plant with a design capacity of 8.64 MGD will still have adequate capacity to treat all of the City's five wells (Wells 1, 2, 4, 6, and 7). Over the years, Wells 1, 2, 4, and 6 have experienced at least a 50% drop in capacity, bringing the combined well capacity (including Well 7) to 7.06 MGD. The Sanford Treatment Plant will continue to be classified as a T2 treatment facility in accordance with the Operator Certification Regulations of the California Code of Regulations, Title 22. A breakdown of the points assigned to the Sanford Treatment Plant in determining

the treatment facility classification is included in Appendix 5. Operator certification requirements for a T2 facility include a chief operator with a minimum T2 grade and shift operators with a minimum T1 grade.

D. California Environmental Quality Act (CEQA)

The State Water Resources Control Board, Division of Drinking Water (Division), as a responsible agency pursuant to CEQA, has reviewed the Mitigated Negative Declaration (MND) prepared by the City, dated September 19, 2014. On October 23, 2014, a Notice of Intent (NOI) was filed with the Los Angeles County Clerk and posted from October 23, 2014 to November 24, 2014 announcing the public hearing and plan to adopt the Draft MND. On November 18, 2014, the Draft MND was adopted by Resolution No. 15-12, including implementation of the proposed mitigation measures. The City developed a Final MND dated November 30, 2014. On December 17, 2014, the City filed a Notice of Determination with the Los Angeles County Clerk.

More than one year after the City adopted the MND, the document was distributed to the public and circulated with the State Clearinghouse (SCH # 2016021083) for a 30day review period beginning on February 22, 2016 and ending on March 22, 2016. During the public review period, one written comment was received from the Department of Transportation. The City filed the MND a second time with the SCH for a 45-day review period beginning on September 21, 2016 and ending on November 4, 2016, and it was sent to the Office of Historic Preservation and the Native American Heritage Commission as reviewing agencies. The Office of Planning Research sent a letter confirming that no state agencies submitted comments during this comment period.

As a responsible agency, the Division has considered the Project MND dated November 30, 2014 together with all comments and Division of Financial Assistance, Special Project Review Unit staff hereby recommend the following findings for the Project:

The project will not result in any significant water quality impacts. There are no recommended permit conditions.

CEQA documents are provided in Appendix 1 of this report.

IV. ENGINEERING APPRAISAL OF SANITARY HAZARDS AND SAFEGUARDS

A review of the plans indicates that the design and construction of the new well, Well 7, is in accordance with AWWA standards and the California Waterworks Standards and is free from sanitary hazards. It is anticipated that Well 7 will be treated successfully together with the other City's wells at the Sanford M. Anderson Water Treatment Plant for iron and manganese.

In late 2015, Regional Water Quality Control Board (RWQCB) expressed concern that the pumping of Well 7 might impact contaminant plume and/or contaminated

groundwater currently existing beneath the known hazardous waste sites in the local area. Consequently, the City hired Richard C. Slade & Associates (RCS) to review available data on the hazardous waste sites of concern and to provide an evaluation of potential hydrogeologic impact, if any, of Well 7 on the contaminated groundwater beneath those sites. A report titled "Review of Nearby Hazardous Waste Sites & Capture Zone Analysis for Proposed City Well No. 7" was prepared by RCS on February 18, 2016. The report concluded that the groundwater that is to be extracted from the Lynwood and/or Silverado aquifers by Well 7 does not appear to have been affected by groundwater contamination from the nearby hazardous waste sites. Also the results of the capture zone analysis revealed that each of the nearby RWQCB-defined hazardous sites was found to be outside the 10-year capture zone (or source water) for each of the two pumping scenarios listed in the report. Thus it does not appear that the future pumping of Well 7 will likely impact the groundwater contamination plumes that may exist beneath the known RWQCB-defined hazardous waste sites.

The City is required to keep monitoring water quality data from Water Replenishment District (WRD) monitoring wells at regular intervals in addition to monitoring water quality data produced from Well 7. If the water quality data shows MCL exceedance in Well 7, treatment will be required at this well before the water may be served to the customers.

V. CONCLUSIONS AND RECOMMENDATIONS

The State Water Resources Control Board, Division of Drinking Water (Division), finds that the Sanford M. Anderson Water Treatment Plant is capable of treating the City's existing groundwater wells and the new well, Well 7, to provide safe, wholesome and potable water that meets all applicable State Drinking Water Standards. Issuance of an amended domestic water supply permit by the State Water Resources Control Board, Division of Drinking Water, to the City for the operation of Well 7 and the existing Sanford M. Anderson Water Treatment Plant is recommended subject to the following provisions:

GENERAL

- 1. The City shall comply with all the requirements set forth in the California Safe Drinking Water Act, California Health and Safety Code and any regulations, standards, or orders adopted hereunder.
- 2. All water supplied by the City for domestic purposes shall meet all Maximum Contaminant Levels (MCLs) established by the State Water Resources Control Board, Division of Drinking Water. If the water quality does not comply with the California Drinking Water Standards, additional treatment shall be provided to bring the water into compliance with standards.

3. The only approved sources of domestic water supply are listed in Tables 1 and 2. **Table 1. Approved Groundwater Sources**

Source	PS Code	Status	Capacity (gpm)
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- 6. Only personnel who have been certified in accordance with the Operator Certification Regulations, Chapter 13, Title 22, California Code of Regulations (CCR) shall operate the distribution system. The City's distribution system has been classified as a D5 system. Therefore, the designated Chief and Shift distribution operators shall possess minimum grade D5 and D3 certificates, respectively.
- 7. All treatment facilities shall be operated by personnel who have been certified in accordance with the Operator Certification Regulations, Chapter 13, Title 22 of CCR. The classifications for all applicable treatment facilities are listed in Table 3. The Sanford M. Anderson Water Treatment Plant has been classified as a T2 treatment facility, which requires minimum grade T2 and T1 certificates for the chief and shift treatment operators, respectively. For the facilities that consist of only disinfection stations, the City may utilize either certified distribution operators or treatment operators that have been trained to operate these facilities.
- 8. All groundwater wells listed in Provision 3 shall be monitored in accordance with the regulations contained in Title 22, CCR, and the most recent Vulnerability Assessment and Monitoring Frequency Guidelines issued by the Division. All results shall be submitted to the Division electronically using the designated PS codes.
- 9. The City shall collect raw water samples prior to disinfection from each active well monthly for total coliform analysis using EPA standard methods unless a higher monitoring frequency is required. If a positive total coliform sample is detected, the sample shall also be analyzed for fecal coliform, or *E. Coli* bacteria. Results shall be submitted to the Division in a summary form by the 10th day of the month, following the month in which the samples were collected.
- 10. The City shall comply with Title 17, CCR, to prevent the water system and treatment facilities from being contaminated by possible cross-connections. The City shall maintain a program for the protection of the domestic water system against backflow from premises having dual or unsafe water systems in accordance with Title 17. All backflow prevention devices shall be tested annually.
- 11. Pursuant to Sections 64590 and 64591, Title 22, CCR, no chemical or product shall be added to drinking water as a part of the treatment process unless it has been certified as meeting the specifications of American National Standard Institute/National Sanitation Foundation (ANSI/NSF) Standard 60, and no indirect additive shall be used unless it has been certified as meeting the specifications of ANSI/NSF Standard 61. The City may use an uncertified chemical, material, or

product if the requirements specified in Section 64593 are met, or if an alternative is proposed that meets the requirements in Section 64551.100.

SANFORD M. ANDERSON WATER TREATMENT PLANT

- 12. The City shall operate the Sanford M. Anderson Water Treatment Plant in accordance with its approved Operations and Maintenance Plan with the following operational requirements:
 - a. The Sanford Treatment Plant shall not be operated above its maximum capacity of 8.64 MGD.
 - b. Wells 1, 2, 4, 6, and 7 shall be treated at the Sanford Treatment Plant at all times for iron and manganese removal.
 - c. The treated effluent shall comply with the iron and manganese secondary MCLs of 0.3 mg/L and 0.05 mg/L, respectively.
 - d. The treated effluent shall be continuously and reliably disinfected to achieve a minimum total chlorine residual of 1.0 mg/L at the entry point of the distribution system.
 - e. The Operations and Maintenance Plan should be periodically reviewed and updated as necessary. Any revised plan shall be submitted to the Division for review and approval.
- 13. Compliance with the iron and manganese secondary MCLs shall be based on a monthly average of weekly samples collected at the Sanford Treatment Plant effluent (PS code 1910051-014).
- 14. A monthly compliance report for the Sanford Treatment Plant shall be submitted to the Division by the 10th of the following month. Monitoring for iron, manganese, color, odor, turbidity shall be conducted monthly at Wells 1, 2, 4, 6, and 7 and plant influent (PS code 1910051-015) and weekly at the plant effluent (PS code 1910051-014). All monitoring analyses shall be performed by a State certified laboratory and results transmitted by electronic data transfer (EDT) to the Division.
- 15. The City shall submit an annual report for the water quality data collected from the WRD monitoring wells located in the vicinity of Well 7.
- All instruments, including but not limited to, chemical analyzers and flow meters, shall be calibrated at the frequencies and by the methods recommended by their respective manufacturers. Records for all instrument calibrations shall be maintained by the City, and made available to the Division when requested.

STATE WATER RESOURCES CONTROL BOARD

DIVISION OF DRINKING WATER

17. The City shall maintain an Operator's Log Book to record all activities, events, and problems with the operations of the wells and Sanford Treatment Plant.

APPENDICES

- 1. Permit Amendment Application and CEQA Documents
- 2. Service Area Map, Hydraulic Schematic, Sanford Treatment Plant Schematic, Treatment Plant Data Sheet
- 3. Well Diagram, Well Data Sheet, Pump Test Results, Title 22 Test Results, and Bacteriological Test Results
- 4. Vulnerability Assessment and Monitoring Frequency Guidelines LGLE
- 5. Treatment Facility Classification Worksheet

APPENDIX 1

Permit Amendment Application CEQA Documents STATE OF CALIFORNIA APPLICATION FOR DOMESTIC WATER SUPPLY PERMIT AMENDMENT FROM

Applicant:	City of Inglewood
	(Enter the name of legal owner, person(s) or organization)

Address: <u>1 West Manchester Blvd., Inglewood, CA 90301</u>

System Name: City of Inglewood

System Number: 1910051

TO: Chi P. Diep, District Engineer District 15 - Metropolitan State Water Resources Control Board Division of Drinking Water 500 North Central Avenue, Suite 500 Glendale, CA 91203

Pursuant and subject to the requirements of the California Health and Safety Code, Division 104,

Part 12, Chapter 4 (California Safe Drinking Water Act), Article 7, Section 116550,

relating to changes requiring an amended permit, application is hereby made to amend an

existing water supply permit to <u>construct a new well (Inglewood Well 7) for groundwater</u> (Applicant must state specifically what is being applied for - whether to construct

production.

new works, make alterations or additions in works or sources, or change or modify treatment.)

 Ω_{ag}

FOR OFFICIAL USE	I (We) declare under penalty of perjury that the statements on this application and on the accompanying attachments are correct to my (our) knowledge and that I (we) are acting under authority and direction of the responsible legal entity under whose name this application is made.
Date Received:	Signed By:
	Title: City of Inigewood Public Works Director
	Address: <u>1 West Manchester Blvd., Inglewood, CA 90301</u>
	Telephone: (310) 412-5333

Dated:

DDW: 12/2017

NOTICE OF DETERMINATION

TO: State Clearinghouse Office P.O. Box 3044 Sacramento, CA 95812-3044

Governor's Office of Planning and Research FROM: State Water Resources Control Board Metropolitan District 500 North Central Avenue, Suite 500 Glendale, CA 91203

SUBJECT: Filing of Notice of Determination in compliance with Section 21108 of the Public Resources Code

SCH#: 2016021083

WATER SYSTEM #: 1910051

PROJECT TITLE: Operation of City of Inglewood – New Well No. 7 Project (Project)

LEAD AGENCY: City of Inglewood (City) CONTACT PERSON: Thomas Lee PHONE NUMBER: (310) 412-5333

RESPONSIBLE AGENCY: State Water Resources Control Board (State Water Board) CONTACT PERSON: Chi P. Diep PHONE NUMBER: (818) 551-2004

PROJECT LOCATION: 101 West Arbor Vitae Street, Inglewood, CA 90301, Los Angeles County

PROJECT DESCRIPTION: The City proposed Project involved construction of a new water production well on a City owned parking lot in an urban area to include:

- 1. Demolish existing pavement and remove nine (9) existing trees on the site (Remove 9-trees: 2@10"-diam, 1@12"-diam, 4@14"-diam, 1@16"-diam, 1@18"-diam).
- Construct 12-inch RCP wastewater storm drain (SD) line connecting to LA County 36-inch SD main (permit obtained).
- 3. Install a 24-feet sound-insulation wall for noise control around the site perimeter for the duration of the Project.
- 4. Provide for water treatment using two above-ground settling tanks for NPDES compliance during drilling.
- 5. Drill a 48-inch diameter hole and install a 42" conductor casing 50-feet below ground surface (bgs).
- 6. Drill a 17 ¹/₂-inch pilot bore-hole from 50-feet to 700-feet bgs.
- 7. Perform downhole geophysical surveying and then isolated aquafer zone testing.
- 8. Collect samples and send to laboratory for testing.
- 9. Ream pilot borehole to 38-inch from 50-feet to 350-feet bgs and then ream pilot borehole 30-in from 350-feet to 640-feet.
- 10. Provide caliper survey and then magnetic deviation survey.
- 11. Install new 20-inch High-Strength Low Alloy (HSLA) well casing (total 642 feet). 3-inch gravel feeding tube and 2-inch sounding tube.
- 12. Install Tacna Sand and Gravel pack.
- 13. Install annular cement/grout seal from 5-feet to 300-feet bgs.
- 14. Conduct alignment survey.
- 15. Mechanically develop the well.

PUBLIC AGENCY APPROVING PROJECT AND CARRYING OUT PROJECT: This is to advise that the State Water Board has issued a drinking water supply permit 1910051PA-002 for the above described Project on June 11, 2019, and has made the following determinations regarding the Project:

- 1. The Project will not have significant effects on water quality.
- 2. A Mitigated Negative Declaration (MND) was prepared for this Project pursuant to the provisions of the California Environmental Quality Act (CEQA).
- 3. Mitigation measures were not made conditions of the issuance of this permit.
- 4. A mitigation monitoring and reporting plan was adopted for this Project.
- 5. Findings were made pursuant to the provisions of CEQA.
- 6. A Statement of Overriding Considerations was not adopted for this Project.

This is to certify that the record of permit issuance for the Project is available to the general public at the State Water Board, Division of Drinking Water District Office noted above. The MND is available from the lead agency.

Signature:	Date:	6/11/2019
		7
Name: Chi P. Diep	 Title:	District Engineer







MATTHEW RODALQUEZ AGGRETARY FOR ENVIRONMENTAL PROTECTION

State Water Resources Control Board

- TO: Chl P. Diep, District Engineer Metropolitan District Office Division of Drinking Water
- FROM: Sara Paiva-Lowry, Senior Environmental Scientist & Allows Special Project Review Unit Division of Financial Assistance

Susan Stewart, Environmental Scientist Special Project Review Unit Division of Financial Assistance

- DATE: September 10, 2018
- SUBJECT: WATER SUPPLY PERMIT (PERMIT) FINDINGS FOR CITY OF INGLEWOOD WATER DEPARTMENT (CITY), NEW WELL NO. 7 PROJECT (PROJECT), WATER SYSTEM ID NUMBER 1910051

The City is the lead agency pursuant to the California Environmental Quality Act (CEQA) for the proposed Project. The State Water Resources Control Board (State Water Board), as a responsible agency pursuant to CEQA, has reviewed the Mitigated Negative Declaration (MND) prepared by the City, dated September 19, 2014. On October 23, 2014 a Notice of Intent (NOI) was filed with the Los Angeles County Clerk and posted from October 23, 2014 to November 24, 2014 announcing the public hearing and plan to adopt the Draft MND. On November 18, 2014 the Draft MND was adopted by Resolution No. 15-12, including implementation of the proposed mitigation measures. The City developed a Final MND dated November 30, 2014. On December 17, 2014 The City filed a Notice of Determination with the Los Angeles County Clerk.

More than one year after the City adopted the MND, the document was distributed to the public and circulated with the State Clearinghouse (SCH # 2016021083) for a 30-day review period beginning on February 22, 2016 and ending on March 22, 2016. During the public review period one written comment was received from the Department of Transportation. The City filed the MND a second time with the SCH for a 45-day review period beginning on September 21, 2016 and ending on November 4, 2016, and it was sent to the Office of Historic Preservation and the Native American Heritage Commission as reviewing agencies. The Office of Planning Research sent a letter confirming that no state agencies submitted comments during this comment period.

Project Description:

The City proposes to construct a new water production well on a City owned parking lot in an urban area to include:

FELICIA MARCUS, CHAIR | EILEEN SOBECK, EXECUTIVE DIRECTOR

1001 L Street, Sacramento, CA 85814 | Mailing Address: P.O. Box 100, Sacramento, CA 95812-0100 | www.waterboards.ca.gov

- 1. Demolish existing pavement and remove nine (9) existing trees on the site (*Remove 9-trees:* 2@10"-dlam, 1@12"-diam, 4@14"-diam, 1@16"-diam, 1@18"-diam).
- 2. Construct 12-inch RCP wastewater storm drain (SD) line connecting to LA County 36inch SD main (permit obtained).
- 3. Install a 24-feet sound-insulation wall for noise control around the site perimeter for the duration of the Project.
- 4. Provide for water treatment using two above-ground settling tanks for NPDES compliance during drilling.
- 5. Drill a 48-inch diameter hole and install a 42" conductor casing 50-feet below ground surface (bgs).
- 6. Drill a 17 ½-inch pllot bore-hole from 50-feet to 700-feet bgs.
- 7. Perform downhole geophysical surveying and then isolated aquafer zone testing.
- 8. Collect samples and send to laboratory for testing.
- 9. Ream pilot borehole to 38-inch from 50-feet to 350-feet bgs and then ream pilot borehole 30-in from 350-feet to 640-feet.
- 10. Provide caliper survey and then magnetic deviation survey.
- 11. Install new 20-inch High-Strength Low Alloy (HSLA) well casing (total 642 feet). 3-inch gravel feeding tube and 2-inch sounding tube.
- 12. Install Tacna Sand and Gravel pack.
- 13. Install annular cement/grout seal from 5-feet to 300-feet bgs.
- 14. Conduct alignment survey.
- 15. Mechanically develop the well.

Determination:

As a responsible agency, the State Water Board has considered the Project MND dated November 30, 2014 together with all comments and Division of Financial Assistance, Special Project Review Unit staff hereby recommend the following findings for the Project:

- The Project will not result in any significant water quality impacts.
- There are no recommended Permit conditions.

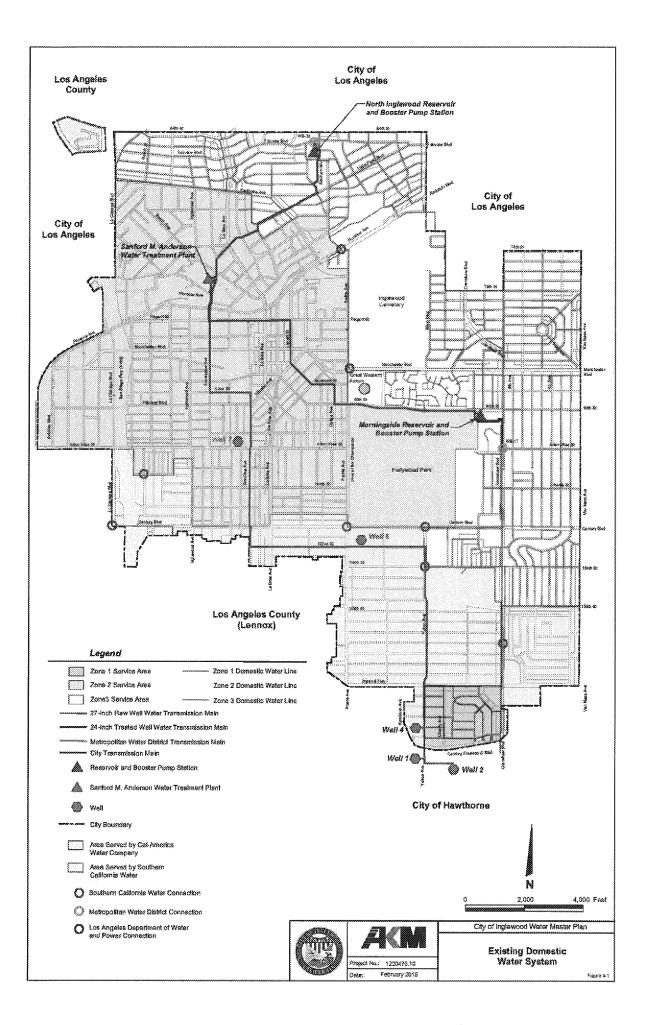
Pursuant to CEQA Guidelines, Section 15096(i), the attached NOD will be filed with the Governor's Office of Planning and Research, State Clearinghouse within five (5) days of issuance of the Permit.

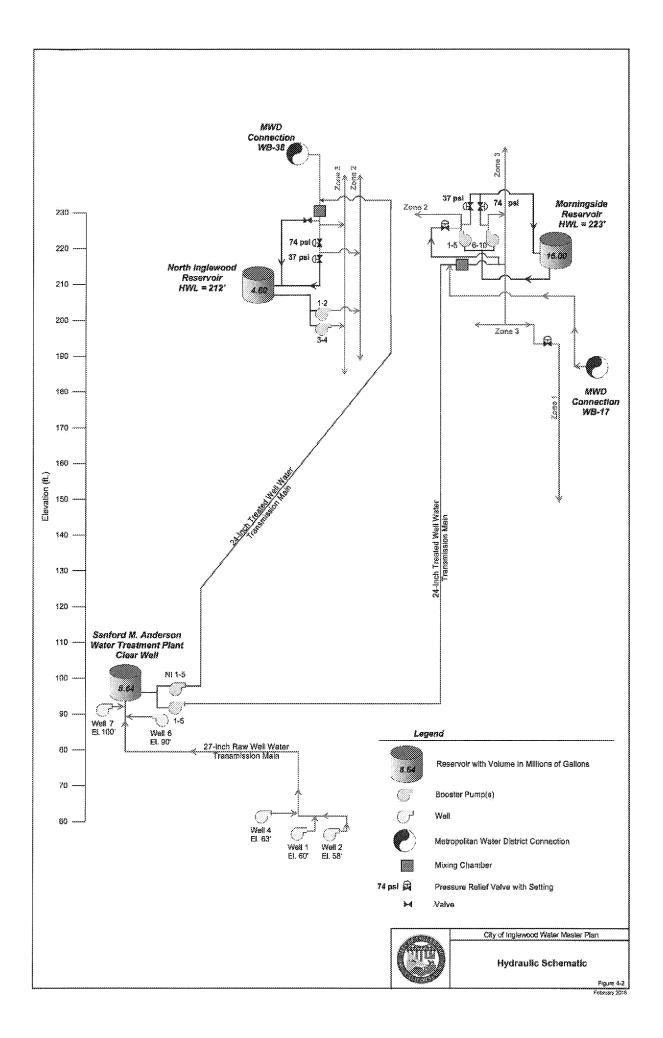
cc: Karen Wong

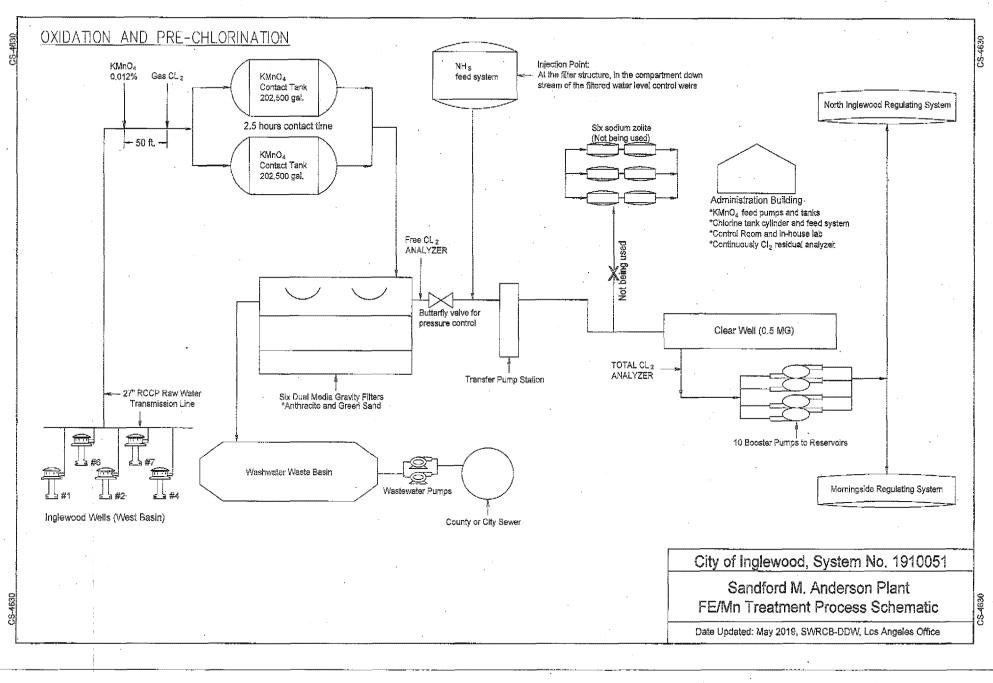
Associate Sanitary Engineer

APPENDIX 2

Service Area Map Hydraulic Schematic Schematic of Sanford Treatment Plant Treatment Plant Data Sheet







STATE OF CALIFORNIA DEPARTMENT OF PUBLIC HEALTH DIVISION OF DRINKING WATER

IRON AND MANGANESE REMOVAL PLANT DATA

System Name: City of Inglewood	System No.: 1910051
Source of Information: DPH Files	/ System Files
Collected by: Ismael Perez	Date: July/2018
Name of water treatment plant:	Sanford M. Anderson Water Treatment Plant

GENERAL INFORMATION

Plant flow and variations:	2.3 MGD to 5.2 MGD	
Design flow: 8.64 MGI)	
Year operation began:	1974	
Frequency plant checked:	Daily	

Raw Water Pumps

Source	Production capacity	Horse power	Flow variation	Control
Well #1	800 gpm	150 HP	5%	SCADA
Well #2	600 gpm	150 HP	5%	SCADA
Well #4	800 gpm	350 HP	5%	SCADA
Well #6	1500 gpm	200 HP	5%	SCADA
Well #7	1500 GPM	200 HP	5%	SCADA

CHEMICAL DATA FOR DISINFECTION/OXIDATION

Type: One Ton Chlorine Cylinders	
Purpose: Pre-Chlorination / Post-Chloramination	· · · · · · · · · · · · · · · · · · ·
Dosage: 16 mg/l	
Is the chemical added continuously? Yes	
······································	

Chemical Storage

Capacity: 12,000 lbs
Days of storage: 13 Days
Chemical form when it is added to the system: Solution
Points of application: Treatment Plant Headwork's

Feeding and Injection Equipment

Type: Wallace & Tiernan

Capacity: 2000 lbs

What determines the dose that will be used? Operational Data & Breakpoint Demand

OTHER CHEMICAL USE

Purpose: Post- Chloramination

Type: Aqua Ammonia 20%

Dosage: 5:1 Cl2:NH3-N

Is the chemical added continuously? Yes

Chemical Storage

Capacity: 1,500 gallon vertical bulk storage tank				
Days of storage: 58 Days				
Chemical form when it is added to the system: Solution				
Points of application: Post-Filtration				

Feeding and Injection Equipment

Type: <u>Milton Roy/ Positive Displacement Pumps</u> Capacity: <u>2.8 GPH</u> What determines the dose that will be used? Filter Free Chlorine Residual

OTHER CHEMICAL USE

Purpose: Oxidation
Type: KMnO4
Dosage 0.07mg/l
Is the chemical added continuously? Yes

Chemical Storage

Capacity: 4000 gallons
Days of storage: 110 Days
Chemical form when it is added to the system: Solution 1.5%
Points of application: Treatment Plant Headwork's

Feeding and Injection Equipment

Type: Milton Roy/ Positive Displacement Pumps	
Capacity: 3.8 GPH	
What determines the dose that will be used? Influent & Effluent Fe & Mn Concentrations	
	GEEC-X

CHEMICAL MIXING

Type: Steel baffled tanks	
Number: two	
Mixing energy (G):3- Element FRP 25 degree triple action	
Mixing time/flow: 67 minutes @ 8.64 MGD	

FILTERS

Type: Gravity	dual Media/Co	nstant RateNumb	er: <u>6</u>	
Filter inside o	limensions: <u>1</u>	1' X 22'		
Describe filte	r maintenance:	Performance Monit	oring	
Media	Depth	Effective Size	Uniformity Coefficient	Specific Gravity
Greensand	18"	0.3-0.35	<1.60	2.4
Anthracite	18"	0.6-0.8	<1.4	1.6-1.7

Gravel-Number of Layers: 5	Total depth:	15"
Media area per filter: 242 sq ft	Total media area:	1452 sq ft
Under drain type: PVC Perforated		

Filtration Rate at Design Flow:

All filters in service: 4.0 gpm/sq ft

One filter is not in service: <u>5.0 gpm/ sq ft</u>

How is filtration rate controlled: Hydraulically

Filter backwash

What determines the time or interval of backwashing?_	NTU/ Head Loss/ Hours of Service
---	----------------------------------

Filter to waste capability? No

Type of surface wash: Fixed water surface wash

Surface wash rate: 3.0 gpm/ sq ft

Source of backwash water: filters in service

Can spent backwash be visually observed? Yes

Maximum backwash rate: 16 gpm/ sq ft

Percent expansion during backwash: 50 %

Describe backwash cycle: <u>filter inlet valve closes</u>, <u>waste water valve opens</u>, <u>surface wash valve opens</u>, <u>surface</u> wash valve closes, waste water valve closes, filter inlet valve opens</u>.

Surface wash duration: 8 min

,

Waste Washwater Basins

Type of basin: <u>Reinforced concrete rectangular basin</u>				
Number of basins: one	_Detention time:_	24 hours		
Volume of wastewater per backwash: 52,000 gallons				
Washwater disposal or recycling: Disposed to LACSD				
· · · · ·				

Sludge disposal: LACSD

CLEARWELL

Type:	Reinforced concrete rectangular tank	Capacity:	.834 MGD	
Detenti	on time: 2.31 hours			

RELIABILITY FEATURES AND MONITORING

Parameter	Location	Grab Sample (frequency)	Continuous Monitoring	Recording	Alarm	Shutdown
Cl2 Residual	Effluent	Analyzer	Yes	Yes	Yes	American and a second state of a second
Cl2 Residual	Effluent	Rver4y for hours				
Cl2 Residual	Filters	Analyzer	Yes	Yes	Yes	
Free NH3-N	Effluent	Once a day				
NTU	Effluent	Every for hours			**************************************	
NTU	Filters	Analyzer	Yes	Yes	Yes	
NTU	Effluent	Analyzer	Yes	Yes	Yes	
Fe	Effluent	Once a day				
Mn	Effluent	Once a day				
Ph	Effluent	Analyzer	Yes	No		
Conductivity	Effluent	Analyzer	Yes	No		
Color	Effluent	Every four hours	·			

Standby equipment	none	· · ·
Standby power:	none	
Discussion and Appr	aisal: None	

TREATED WATER QUALITY

Effluent residual: 2.5-3.5 mg/l total chlorine residual

 % of iron reduction:
 90%
 Range of Effluent Iron Level: __non-detect to 40ug/l

 % of manganese reduction:
 80%
 Range of Effluent Manganese Level: __non- detect to 30ug/l

OPERATIONS

Describe records maintained: <u>Daily operational records of water quality, quantity, and chemical consumption and dosages.</u>

Is operations plan adequate, if not describe needed changes: None

Required level of certification: ______

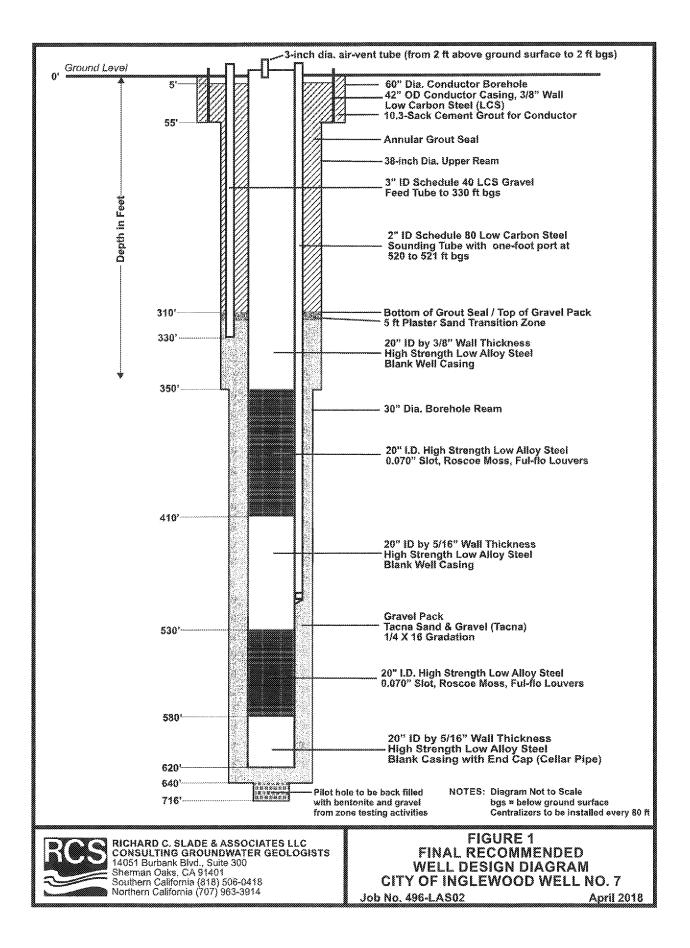
Number and level of certified operators: Three T-2, four T-3, one T-4

Constituent	Monitoring Frequency (continuous/daily/weekly/monthly)
Iron, Manganese, Color, NTU, Odor, Ammonia,	Weekly at plant influent, Monthly at wells
Free and Total residuals, NTU, Color	Every for hours
Combined Residual, Free NH3-N	Daily

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APPENDIX 3

Well Diagram Well Data Sheet Pump Test Results Title 22 Test Results Bacteriological Test Results



WELL DATA SHEET (Page 1 of 3)

Complete as much information as possible. Leave blank if information is not av	allable, use N.A. if not applicable.	
* Indicates items required for Source Water Assessment		
** Indicates additional items required for assessments and Ground Wat		
	(separate multiple entries in field	Actual, Estimated or Default?
	with semi-colon)	
DATA SHEET GENERAL INFORMATION		
System Name	City of Inglewood	from SWRCB database
System Number	1910051	from SWRCB database
Source of Information (well log, SWRCB/County files, system, etc)	Site Feasibility Report	·······
Organization Collecting Information (SWRCB, County, System, other)	Other	actual
Date Information Collected/Updated	April 5, 2016	actual
WELLIDENTIFICATION		
* Well Number or Name	Well No. 7	actual
* SWRCB Source Identification Number (FRDS ID No.)	1910051-19	actual
DWR Well Log on File? ("YES" or "NO")	Yes	actual
State Well Number (from DWR)	02S14W33F001S	actual
Well Status (Active, Standby, Inactive)	Active	actual
WELL LOCATION		
Latitude	33.95292	actual
Longitude	-118.35515	actual
Ground Surface Elevation (ft above Mean Sea Level)	105	Estimated
Street Address	101 Arbor Vitae St	actual
Nearest Cross Street	South Grevillea Ave	actual
City	Inglewood	actual
County	Los Angeles	actual
* Neighborhood/Surrounding Area (see Note 1)	Residental Yes	actual
Site plan on file? ("YES" or "NO")		Pending
DWR Ground Water Basin	Coastal Plain of Los Angeles	actual from DWR
DWR Ground Water Sub-basin SANITARY CONDITIONS	West Coast Basin	actual from DWR
** Distance to closest Sewer Line, Sewage Disposal, Septic Tank (ft)	69.60	actual
Distance to Active Wells (ft)	5,200 ft	actual
Distance to Abandoned Wells (ft)	Unknown	actual
Distance to Surface Water (ft)	5 miles	actual
** Size of controlled area around well (square feet)	3,000	actual
* Type of access control to well site (fencing, building, etc)	Fencing	actual
* Surface Seal? (Concrete slab)("YES", "NO" or "UNKNOWN")	Concrete Slab	actual
* Dimensions of concrete slab: Length(ft)/ Width(ft)/ Thick(in)	91/33/1.25	actual
* Within 100 year flood plain? ("YES", "NO" or "UNKNOWN")	No	actual
* Drainage away from well? ("YES" or "NO")	Yes	actual
ENCLOSURE/HOUSING		
Enclosure Type (building, vault, none, etc.)	None	actual
Floor material	Concrete	when completed
Located in Pit? ("YES" or "NO")	No	actual
Pit depth (feet) (if applicable)		
WELL CONSTRUCTION		
Date drilled	3/15-3/17/2018	actual
Drilling Method	reverse circulation	actual
Depth of Bore Hole (feet below ground surface)	716	actual
Casing Beginning Depth/Ending Depth(ft below surface);		,
2nd Casing Beginning Depth/Ending Depth; 3rd Casing, etc.	0 to 620	actual
Casing Diameter (inches); 2nd Casing Diameter; 3rd Casing, etc.	20	actual
Casing Material; 2nd Casing Material; 3rd Casing, etc.	High Strength, Low Alloy	actual
WELL CONSTRUCTION (continued)		GOLUGI
Conductor casing used? ("YES", "NO" or "UNKNOWN") (See Note 2)	Yes	actual
Conductor casing used? (YES', "NO or "UNKNOWN") (See Note 2) Conductor casing removed?" ("YES", "NO" or "UNKNOWN")		
	No	actual
* Depth to highest perforations/screens (ft below surface) (or "UNKNOWN")	352	actual

WELL DATA SHEET (Page 2 of 3)

Complete as much information as possible. Leave blank if information is not available to blank if informaticable to bla	allable, use N.A. if not applicable.	· · ·
Indicates items required for Source Water Assessment	- Dada	
* Indicates additional items required for assessments and Ground Wate	r Rule	
Screened Interval Beginning Depth/Ending Depth (ft below surface); 2nd Screened Interval Beg. Depth/Ending Depth; 3rd Screened Interval, etc.	352 to 410 532 to 581	actual
Total length of screened interval (ft) (default = 10% pump capacity in gpm) (or "UNKNOWN")	197	actual
Annular Seal?("YES", "NO" or "UNKNOWN") (See Note 3)	Yes	actual
Depth of Annular Seal (ft)	310	actual
Aaterial of Annular Seal (cement grout, bentonite, etc.)	cement grout	actual
Gravel pack, Depth to top (ft below ground surface)	310 to 636	actual
otal length of gravel pack (ft)	326	estimated
(QUIFER S		
Aquifer Materials list all that apply: sand, silt, clay, gravel, rock, fractured rock)	clay, silt and sand	actual
Effective porosity (decimal percent) (default = 0.2) (or "UNKNOWN")	0.2	dəfault
Confining layer (Impervious Strata) above aquifer? ("YES", "NO" or "UNKNOWN")	Yes	actual
hickness of confining layer, if known (ft)	180 (combined total to 340')	actual
Depth to confining layer, if known (ft below ground)	80	actual
Static water level (ft below ground surface)	112	actual
Static water level measurement: Date/Method	5/18/2018/Sounder	actual
Pumping water level (ft below ground surface)	208	actual
Pumping water level measurement: Date/Method	5/22/2018/Sounder	actual
VELL PRODUCTION		
Vell Yield (gpm)	1,500	actual
Vell Yield Based On (i.e., pump test, etc.)	Pumping Test	actual
Date measured	5/22/2018	actual
s the well metered? ("YES" or "NO")	Yes	actual
Production (gallons per year)	693,000,000	estimated
requency of Use (hours/year)	462,000	estimated
ypical pumping duration (hours/day)	22 hr /day	estimated
UMP		
/ake	Goulds	actual
уре	Submersible	actual
Size (hp)	200	actual
Capacity (gpm)	1,500	actual
Depth to suction intake (ft below ground surface)	300	actual
ubrication Type	Water (Submersible)	actual
ype of Power: (i.e., electric, diesel, etc.)	Electric	actual
Auxiliary power available? ("YES" or "NO")	No	actual
Dperation controlled by: (i.e., level in tank, pressure, etc.)	SCADA	actual
		actual
Pump to Waste capability? ("YES" or "NO") Discharges to: (i.e., distribution system, storage, etc.)	Yes Water Treatment Plant	actual

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230		FIROT	STARS	Te .	TANK	5	RED & LITE MUDDY I MIN		
2:33	68.39m					+	CLEAR	17.1	
2:40		800	147.8	48,T	942	16-42	CLEAR VERY CLEAR	45	
2:50	100,997	1250	190.9'	71.8	1645	17,40	CLEAR		
2:59	I-8 STA	AT AF	TER IS	URG-E			CLENR	4.41	
3114	1.3.6PM	1400	207.1	0.88	lize.	15.90		2,94	
3:20	STP 6.0	BT AF	TER 3	SURGE	ł		CLEAR	16.5	
3:40	III.39	1802	<u>242.9'</u>	123.8'	1304	14.53	CLEAR	34	
4:05	STA	RS ART	ER 4 ;	SURGES	1		CLEAR .	15:4	
4:25	3.4 95.4	2000	244.0	1249	1360	16:01	CLEAR	4.2	
4:40	- Carlos and	STAR	AFTER	- SWAR	5-E.5		CLEAR	163	
5100	2:9.88	2350	251.2	132.1	**************************************	18-51	CLEAR	4.6	
5115		START	AFTER	HSUR	and a minipage of the second se		CLEAR	17.0	
57.35	21.3 FRM	2460	252.0	Contrast Large in some some sin strengt		18.51	CLEAR:	4,8	1
5:40		START	AFTE		iRGE	1	CLEAR	11.5	
6:00	35.0	2500	253.0	133.9			CLEAR	7.2	200 Ramericana
6:30	SHUT			LP TO				1.005	
	300	5 NØ	FTR. 1	JORK		Rento	H WNDER		
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Date: 5-15-18 Page 2

			<u> </u>	<u>E. WOO</u>	0 ¥]	<u>7 we</u>	Job No. 275_160	-75	ndras veisest
	CALX L 18298 18900	<u>200</u>		ntic level line depti	318.1	S Paat	Hours/Page J Total hours _	4.5	}
Op	erator: _	PORTE	R	TOP +	rerf. 3. P.E. 5			22,6	200
Time	P.P.M.	g.r.M.	Pumping Loysi	Draw- Consti	Engino R.P.M.	Specific Capacity	Comments	FAU	TSS
8:00	5	TART T	to wa	TE			15 SEC DISCORD	12.1	
8:20	3.4 90,10	1500	200.1	76.2'	1100	19.68	CLEAR	3.9	
8:40	ST/	ART A	ETER	1.	RES		CLEAR	141	
9:00	2.3	1428	202.5	78.6	1100	18.16	CLEAR	3.5	
9:20	~	raes A	ETER .	5 SUR	CES	fan de seine de state de state de state de seine de state de seine de state de state de state de state de stat Se seine de seine de state de s	CLFAR	89	
9:40	2.097 . 53.59	2025	239.4	1155	1300	17.53	CLEAR	3.1	
10:00		tur o	6.00	REPAI		0 0	SCHARCE	1-2-1	
11:15	<u> </u>	P\$ R	Lunn	1			CLEAR	4.2	1
11:35	1.4 40 ppm	2040	240.6'	116.7.	1320	17.40	an a		
11:40		START	AFTER		2GES		an a	1.8	-
12:00	46.89	2177	266.0	142.1.	1410	15,32	CLEAR	1.0	[
12:12		START	AFTER	State of the second state	GES		CLEAR	A2	
12:32	45 Pen	2312	277.5	153.6'	1450	15.05	CLEAR	3.6	
12:44	STAR	T AFT	ER. 7 5				CLEAR .	6.3	
1:04	2.3 PRM	24.75	285.6	161.7'	1300	15.30	AT 2300 MANHOLE. OVER FLOWS 256PM.	7.2	
1:35	4.2		290.2'	167.2	1500	1470	LEFT RUNING JAND TES	5.9	
2:07			ETER	and the second of the second	RGES			9.4	e
2:32	2.8	2123	245.2'	121.3	1278	17.50	CLEAR	نەك يەلىپ ا	H
3:05	Approximation and a subscription of the	ART A	ETER	10 50	RGES	1120	CLEAR	8.9	
3:35	22.38	1734	225.3	101.4'	1206	17.10	CLEAR	2.1	,
3:57	<u> 2412</u>	ART AP	TER 4	SURGE		1.11.0		1.2	
4:25	32.18	1735	225.3		1206	17.14	· L(2.9	
4:32							61	<u>ery</u>	
	1.7		1	3 SUR			L	<u>†</u>	in en
4:47	321		22521	101.2	·	17.18	H	$\left\{ \begin{array}{c} \end{array} \right\}$	
4:59	1.1		AFTER	1	ACES	-	4	 	
5:15	7	an a	225.1	101.2	1206	<u>٩، ٦، ١٩</u>	and the second se	_	
5:25	11	han and a state of the state of	T AFTE		wase			4.0	
5:50				101.2	1206			<u>410</u>	
6:00		URCE_	\$ 544	AT DOX	و لند	CANSO	IS GETTING BEITER	-	
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							Date: <u>5-16-18</u> Page_	<u></u>	0006208005200
			TNGLE	E Ward	, *7	<u>سمةلل</u>	Job No. 27	675	5
•	MACRO				100.0				
Məter	X	83598798825+ ``X {* _}~~		itic level line depti			are and and a selfine of	Curochina Jacque	ode puedos
	•			op peri	- <u>0,04</u> - 350'			10000-1230-0000-5-1999	erende festionen
Ор	erator: _	PORTE		McConferences in the second			ិ ដែល ដឹងដែល ដឹងដែរ ស្រី ស្រី ស្រី ស្រី ស្រី ស្រី ស្រី ស្រ	/Williams.oppgr	
deres	CT%, 5%6, 56 56		Pumping	<u>SILTS</u> Draw-	Engine	<u>درج دن</u> Specific	DEVELOPMENT	ALG	<u>}</u>
Time	P.P.M.	G.P.M.	Lavel	down	R.P.M.	Capacity	Comments	FAU	TSS
2.00	ST	ART L	LP W	ARM U	PTE	ST E	DUIPMENT		<u> </u>
7:05	Martin Contract of Contract	START	To w	ASTE			CLEAR		ţ.
7:20		16 40	218.6	40.6	1204	18.65	A THUS	He is	ť—
7:30	40.2 8	1604	20.0	92.0'	1201	17.43	CLEAR	7.1	1
8:05	·····	STAR	E AFT	RHS	REES	1	CLEAR	513	ļ
8:20	53.08	1724	215.4'	87.4	1206	19.72	CLEAR	4.0	
8:25		A 796	FIFR 2	SUR		[CLEAR	8.6	}
8:40	35.08	1760	216.8	88.8'	1225	19,81	CLEAR	4.8	ļ
8:43		STAR	AFTE	t		an a	CLEAR	5.1	1
8.58	3).orm	1860	229.0	101.0	1259	18.42		4.0	
9:04		START	AFTER	35	LRGE	1	CLEAR	5.9	
9:20	36.4997	1890	230.2	102.2	1:264	18.49	CLEAR	41.9	
9:25			AFTER	3 50	RGES		CLEAR	6.50	
9:40	1.4	2000	240.6 '	112.6		17.76	T.D.3 .398a/4	1	
9:51	5	CARST A		And the second division of the second se	LGES		CLEAR P.H. 20 CLEAR F.C. CSG MS/cm	7.9	
10:04	31.8TPh	2004	241.7	113.7'	1392	17.62	CLEAR	2.0	
10:10	ST	ART A	TER 3	s Sur	And the second second production and the second	a a che la 1999 esta da che a che	CLEAR	1.6	
10:25	-	2004	241.7'	113.7	1326	17.62	CLEAR	4.1	
10:45		START	AFTER		RGES		CLEAR .	7.2	·
10:00	1.3.48M	2004	241.7	113.7	1326	17.67	LET RUN TO CHECK	30	
	1.3 . 1	2004	243.6	115.6	1324	11.33	SAND & YIELD	•	-
11. 19	5	TART A	FTER 2	Sar			CLEAR_	4.9	
11:34	49.48	2004	241.6	113.6	1326	17,64	CLEAR	119	
11:40		.STAG		RZS			CLEAR	8.2	
	11.H H9.H9		241.6	113.6	1326	17.64	++LA	4.9	
11:57							,	6.9	
12:12	47.7 PPT	<u>STP</u> 2004	<u>57 APTA</u> 241.6	R D S 113.6	1326	<u>.s</u> 17.64	CLEAR II	40	
		4	PTER 2	SUR		1.61	ĸ	43	
12117	7 2 5 1			•		1	ft	12.0	
	42.780	1	241.6		1326	17.64	START WATER IS GRAY	The s	
12:35	L.B.AM	STAR	<u>CAFIER</u>	<u>- 2 su</u>	46123		SHOOT	40	1
12:45	69.9				- AP	1,	[98ž	500
2:50	- 3- Arth	2004	241.6	113.6	1326	17.68		1	}

5-11-19

Customer: CITY of INGELWOOD \$7 WELL Job No: 27- 76675 12"MEROM. Static level 128.0 Meter X 19900 755 Fact House/Page 11.5 Airline depth <u>318.0</u> Feel TOP PERF 350' Totel hours 25.5 P.E. 32793 Gen 952,000 Operator: PORTER WORKING ON SILTS Fumping Draw-Engine Specific Thase **户户别** GRM Comments FAUTES Lovel uown RPM Capacity 121.50 POM LAST PACE 1200 TART FTER 705 ART .57 9 PM DOWN GRAVEL PACK 24.78 1:15 2004 241.5 113.5' 1326 17.65 CLEAR 2.4 : 25 : 33 : 43 : 53 STOP 72041 4943 CLEAR 36 33 CLEAR <u>0</u>2.C 1 120.61 248.6' 2.6991 155 2000 CLEAR 10 MUNS 1320 10.60 .87 CANT CIVERS TO 153 STOP START TAPERS OFF TO 2.3 MM 1.3 •8 2:13 78.34 2022 118.2' 246.2 335 17-16 CLEAR 25 4.67 2:30 2026 249.4 121.4' 1339 16.68 CLEAR .95 2:35 570P START 1.3 CLEAR. 17.22 2:55 2004 241.3 113.3 1326 17.68 CLEAR 2.2 2:57 STOP TART CLEAR 4.1 .25 AT 3:12 88.3' 216.3 1750 19.81 1220 1.6 CLEAR 3:14 FLO Strop Q DAR IGHER CLEME 16 N7.68 3:29 2.9 249.3 121.3 202.5 1332 16.69 CLER 3:31 901 START CLEAR 14 19.48 249.3' 3:46 2025 121.3 13:31 16.69 CLEAR 2,6 3:48 STOP START CLEAR 4.6 19.4 121.3 4:03 2025 249.3 13:30 2.2 16.69 CLEAR .00 121,5' 4:13 249.5 CLEAR 1.8 J.L 2025 1330 16:69 4:15 901 START REDUC CLEAR S FL 5 1.0 4:35 87.8' 1730 215.8 1205 19.70 CI FAR °0 5 4:40 HIGKE \$TOP TAA (D)CLEAR 5.5 1.0 26577 5:00 2150 260.7 132 T 380 16.20 CLEAR 1.3 49 START STOP OLFAR R FLC 5:05 片化代目 31.800 3.0 269.6 141.4 5120 2240 1420 15.81 CLEAR <u>جع</u>ن STOP 5:25 STARTS عل CLEAR 3.8 n 11.9991 5:45 115.6 1315 1.7. 1990 243.6' 17.21 CLEAR 6:00 STOP È RE SCART AFTER 10 NS CLEAR 34 \$18 1:5 6:20 205.8' 77,8' 19.92 1550 1180 CLEAR 7.43 a, 6:30 SHUT \mathbb{C}

Date: 5-16-18 Page 4

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<u>o</u> r.							Date: S	-17-18Pego _		Cottonralogase
Custom	m <u>C</u>	TH of	TNCE	ليناهم	> *7	WEL	<u> </u>	Job No. 444	75	
	MECRON						<u>Transfor</u>	Country or dear and a stratification		are and a second second
Meter ''	<u>abl X 11</u> 985200	200		itic level line deoli op perf	128 A	2_Feet	. .	Hours/Page_ Total hours _	Sinda (Sinda Internet Sinda (Sinda Internet)	<u>e rinizio de ser e</u>
Op	erator: _	PRITER			330.0' RNUNG	ę - I	e. \$3279: ~D.) gad	a lait timekan	
Tire	P.P.M.	G.R.M.	Pumping Level	Draw- down		Specific Capacity		ommente	FAU	TBB
1:00	ST	T 721	ESTE	KING	WAR	hup	SURGI	EWELL		900-6-30/47-0
7:20	Ta	<u></u>	E AFT	a 4 s	LRLE	6 June	ĊLEAR	fa nya 2019 may kanya kany A		
7:22	39.78	1650	200.7'	798.3	1145	22.94	<1 ·····	**************************************	490	
7:30	33.100	1615	204.2	75.Y	1145	21.41	λ. i		a .o	
7:40	-5-3 18h	1604	203.1	79.3	1145	20.22	· tý		b.1	
7:50	1.5 11	1530	210.4	SILL'I	1145	187.76	ц .	,	1.10	
8:00	6.5 PP	1528	211.4	81.4	1145	18.72	ų	(n-2011), in a many approximation of instances on the state of the second second second second second second s		*****
809	ST		TER I	SURCE			LC.	۶ «۵۵۶ հատում» տարարությունների հանրակությունների հետև հետերին հատում է հանրենի հետ հանրակությունների հետ հատո 	4.1	
8:24	21.287	1765	217.1	88.3'	1220	19.98	ng dan périnteranan (ng ng Pangan San (ng 1996 1996) an dan makan menjadi sebelah kemulakan menjadi sebelah s	n an	2.6	
8:28	5-1	ART A	-is Balandation	SURGE		1. (.:	ACS, SANO FLO 5 G.P.	TESTER INCREME	4.20	
8:43	28,28	1760	1	187.0 ′	1215	19,77	CLEAR			
8:46	(AFTER	SURGE	an and a subscription of the subscription of t	1.15.11.	11	det Niewelde kaarmangen op aan op Friederste Belde is fan de kannen maak pe hae aanse ook op geweerske ke	9.03 H.2	
	•8 28.24	1760	217.8	89.0	1215	19.77	٤٠	مېر وې د وې د وې	2.0	· ·
9:03			FTER 1	SURC		<u></u>		۵	4.0	
9:18	35.3	1790	222.1	93.3'	1228	19,18		alina alika taka mana alika na mana na I	1.98	
9:22		START	AFTER		RG-E	<u></u>	11		1	Record
9:37	42.4984	2004	241.6	>	1320	17:76	٤l		14.6 23	
9:40	154		FTER 2	SURC		1116	L (ann gan an gan an gan gan gan gan gan ga	4.4	
9:55	39,8 RAL				1320	17.76	{ (b .2	
an and a state of the second sec		2004				<u>1.112</u>	\$ (ре детр била фобби в в в в настоя фо _р инистрой на во	42	
10:00	1.0		FIER				<i>[</i> 1			
10:15	52.23	2004	241.6	112.8	1322	17.76	11	<u>84 \$ 184 \$</u>	2.2	
10:20	93558	STAR			RCSS		17		4,1	
10:35	33.50	2609	241.0	112.8	1326	17.81		a daaraharaan waxaa amaa ahaa waxaa waxaa waxaa ahaa ahaa ahaa	2.0	ļļ
10:40	1.0-9	TART F	FIER		3685		LC .	م المان بود مواجعه توسعه من معني - الإرض خارب	3.9	
10:35	1	2010	241.8	113.0	1328	17.78	V	1995 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 19 - 1997 - 199 - 1997 - 199	20	
11.00	2.0.0		FIER 2	Surg	<u>es h</u>	AND ADDRESS OF A DESCRIPTION OF A DESCRI	Q		5.5	F_
11:15	2.0 ppm 70.6 ppm 10.4 ppm	22.50	2551	128.8	1400	18.24	 	nangen and a substantian and a substant	<u>3.</u> 2	
11:30	10.69	2281	261.4.	132.6'	1433	17.20		ىرى ئىلى بىرى ئىلى بىرى بىرى بىرى بىرى بىرى بىرى بىرى ب	<u>2,2</u>	[]
11:45	ا ر فسانه مکن	2300	264.8	1360	1433	16.91	И	5 5-25-14-15-25-26-14-14-14-24-26-14-14-14-14-14-14-14-14-14-14-14-14-14-	<u>b.o</u>	
11:50		START	AFTER	2 5	JACE	4	¥		5.7	
12:10	35.48	2300	263.7	135.1'	1433	17.02	11		2.2	
12:13		START	AFTER	2	<u>surg</u>	<u>es</u>	r		5.6	b

							2003 Station of Company of Company	- Yang Pays -	Escatedzie	1996112429
Cusiom	or: CII	L of Is	Kil Ewice	<u>*</u>	<u>7 wel</u>	L.	d.	ob No. 9- 144	,75	
. 13	1 MCOR	лA								
	<u>ent X 1</u>			nic level	128,8	Feet		Hours/Page_		
	1852 Per		Air	line dept	<u>, 318 o</u>	Feet	~ + 00792	Total hours	34.	Q.
20	0594000	Parter	ע	107	Perf. 3:	20.0.	RE \$32773	g.p.d. 7	42	000
vy	9398915 «				RKING	<u>en 54</u>	30		ه دستينه ه	
Time	P.P.M.	G.R.M.	Pumping	Diem-	Engine	Specific	n na	and a second	NTU T	<u> </u>
1			Loyel	down	RPM	Considity	Com	mante	Fau	TSS
12:33	1.81-ROY 47.7Pm	1191	2664	132.6	1.1.5		CLEAR.			
	I. I		1	1	1400	17.20	CLEAR	مستره والمراقبة المقاربات ومحما المتورز وورافي والمراقب المراقب المراقب المراقبة	<u>p.3</u>	
12:38	46.3 PP	START	1	A Contraction of the local diversion of the l					5.3	{
12:58	46.31	2280	261.3	132.5	1400	17.20	a 		विस	
1:00	17	START_	AFTER	1 <u>sur</u>	Æ				5.4	
1:20	4549	2280	261.9	133.1'	1400	17.12	U	an di san managana kanan sandang manan dan kanan da	2,2	
1:27	·	TART /	FTER	1 SUR	- 6		(.)	₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩	5.2	
1:47	1.4 mm	2275	2617	132.9	1398	17.11	4	ny dia 2014 kaominina mpikambana amin'ny faritr'o amin'ny faritr'o dia		
2:04		START	AFTER	and a second	LRGE	<u>f-st-</u> st-f-t-f	(1	****** ******************************	0.0 5.0	{
2:24	1-3-5. 35.7 M	2270	261.1	132.3	1380	17.15	Į(den service ser	T	
2:30	mand a strange	START		I SUR		1/10	- M	annan ang pan dina tanàna mang mang mang mang mang mang mang ma	<u> </u>	
2:30	31500		260.1	131.3'	1370		11		3.4	
					12:10	17.13		كالمسجع وملاقط مردس كاليتي كالمستخ عمار بيرشي والمراجع والمراجع والمراجع	1-9	
3:00			. /	SURGE			net balletas miningrappangagi Mita statutuk jigi papi katilet da andapan di man	، دور در دور در	3-2	
3:20	34,4PP		260.2	131.4	1400	17.12	1		1.8	
3:25	-36	ART AF	TER 1	SURGE	<u>LOW</u>	FLOU) (٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠	2.0	2
3:45	3.4PM	1034	188.6	59.8	1072	17,29	[]	american 11.1111.111.111.111.111.111.111.111.11	1.4	1-rg/1-1247.7647.0
3:50	57	ART A	ETER 1	SURGE	-		s)	مىلىكى بىرى بىرى بىرى بىرى بىرى بىرى بىلىكى بىرى بىرى بىرى بىرى بىرى بىرى بىرى ب	ai	9
1:12	5 LPPM	816	172.4	43.6'	1004	18.72_	1	فالمكافعة والمكافرة محارجه والمحافظ والمح	1.7	
4:15	<u>SF</u>	wer Do	non Pr	<u>de 51</u>	EP -TE	হ্র ১ট	<u>T 4.P.</u>			
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Date: 5:17-18 Page 4

Date: 57-18-18 Page 7

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7:02	21.28	1340	-179.15	50.35	1046	26.61	-		20	3 9	683
7:04	27.78m	1330	182.9'	54.1	1047	24.58			20	599	557
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7:35	- 375 - 5 PPM	1290	194.21	65.41	8201	19.72				63	
7:4.0	.53PM	1300	194.67	45.87	1068	19.79			20	6.4	540
7:50	· 703 · 3 PP*	1:768	195.3	66.5	1068	19.06]	wareholder warden wie bei bestehe andere	_20	60	308
8:00	,41 ,18	1280	195.75	66.95	1068	19.11			20	67	91
8:10	- 43	1250	196.071	67.27'	1068	18,58				68	
8:20	.45pph	1258	196.3	47.5	1068	18.63				269	
8:30	-46	1260	196.5'	67.7'	1068	18.61			20	70	967
8:40	13PP*	1250	196.63	67,83	1068	18,42		NTU .98		72	
9:56	· 49 • 33 FMY	1248	196.85	68.05	1068	18.33	1267.1	ANG. (2hrs)	20	574	202
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5:00		2230	269.0	140.2	1410	15,90	P.H. 6-8	2, -704 m			410
5:15	2:55pm	2227	269.3	140.3	1410	15-85	74° F. 352	B/L	215	85	800
5:30	1.769	2225	269.58	140,78	1410	15.80	CRYSTAL C	L.EAR	214	18	<u>530</u>
5:45	7.728	2226	269.83	141.03	1410	15.78			21	153	500
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## Layne Cortaienses Company

## 0496:5<u>-21-18</u> Fege 10

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10:04	10,6 PPM	15-00	1191.2	63.5	11.32	23.62	<u> </u>	ىرىنى بىلىرىنى بىرىنى بىرىنى يېۋىرىنى يېۋىرىكە ئۇرىكە تەرىپىلىغىنى بىرىنى بىرىنى بىرىنى بىرىنى بىرىنى بىرىنى بى		23	1
10:06	7.9.5	1500	134.4,	66.7'	1134	22.48	<u>.</u>	ىدەر مىلىدە بىرىنى تەرىپىلىغۇر يەر يىلىغۇر يۇرىغۇر بۇرىغۇر يۇرىغۇر يەر يۇرىغۇر يۇرىغۇر يۇرىغۇر يۇرىغى بىرىنى ب			986,
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10.10	7.9 PPN	1500	199.3'	71.6	1139	20.94	CRY	STAL CLEAR		834	
10:05	:20 -PPA	1505	201,6	73.9	1140	20.36				841	1
10:20	2. C. PPA	1510	204.2	76.5'	1142	19.73				349	1
10:35	1.3 PPA	1520	205.05	77.35	1148	19.65	1			\$36	ł
10:35	1.3 991	1526	208.27	<u>' 80.57</u>	1153	18.94	-			1	935
10:40	17.3 PPM	1526	208.78	31.08	1156	18.74	<u> </u>	مېرى يې د بې د		179	1
10:50	.273 .265 Pm	1532	212.68	84.98	1160	18.02				95	3
11:00	·28-01-1		213.27	85.57	1172	18.05				16	1
11:10	-283M	1550	213.87'	86.17	1172	17.98		-	÷ ·	26	1
11:20	1.329m	1550	214.26	84.54	1172	00.00				41	1
11:30	-295 part -205 part -295	1550	214.68	86.98	1172	17.82	ļ		219	57	300
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	198 6		215.62	87.92	1172	17.53	1			1	396
12:15	·298 ·298	1530	215.99'	88.29	1172	17.32	6.53	32.4 AVG. FLO	1 -	1	300
12.30	. 298	1530	3	8855	1172	17.27			7 22	104	927
12:45	1.298	1529	216.53		1172	17.21	Ĵ.		u .80		1
1:80	.298	1	216.71	89.01	1172	17.15	P.H.	6.8 5-350 all	33	1 -	107
1:30	· 3 [8"	1525	217.2	89.5'	1172	17.03	TEN	P. 74%.		1	हिंबर
2:00	• 3	1523	217.3	89.6	1172	1	1004	CLEAR		Ĕ	437
2:30	.3	1522	217.9	90.2	1172	14.87	11	1	-		\$4=
3:00	23	1520	218.1	90,4	1172	16.81	1 11			1	100
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3:30	1.3	1556	1	r r	1182	16.74	<u>ι</u> ε	. 4	à.	137	कंग
4:00	1.31 7 6	1541	bal.o'	93.3	1185	16.50	-			.काद	1
4:30	-3I	1	221.3'	93.6'	1185	116.55	<u> </u>	a na anna ann an ann ann ann ann ann an	20	যদি	PIE
5:00		1546	1221.37	93,67	1185	16.49	$\mathbf{t}$	. A to the second se	an an an an an an an Antoine an Antoine an Anna an Ann	1	1
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<u> </u>	1	]				1	<u> </u>	پر بر و سوی سرون و در این و بر این و با این این این این این این این این این ای	وي مركز المركز		

والمحصور إعجادها وعدادها أرحا محمدان فالعادم وسيرمز الادار

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Date: 5-21-18 Page 11

	GALX		Air	ntic level line deptin	127. 318. 718.	o' Feet	TR	oure/Page_1 Vial hours _7 .P.D.	
Op	erator: _	PORTER	<u>IENI</u>	A SAMPLE AND A SAM	¢*		i i		6314
Time	P.P.M.	G.P.M.	Pumping Level	Draw- down	<u>CONT</u> Engine R.P.M.	Specific Capacity	Comments		AULTER
:00	•31	1546	221.37	93.67	1185	16,49	CRYSTELCLEAR	NTY .74	
130	:31	1545	221,55	93,85	1185	16.46			5094
100	•31	1546	221.75	94.05	1185	16.43	(1534.3 AVG.)	:23.	535
<u>.:30</u>	-31 -31	1550	221,88	94,18	1188	16.45		7	.625
1:00		1544	222.0	94.3	1188	16.37	ατηματικό το ποιεία το ποιεία το ποιεία ποι προγραφικό το ποιεία το ποιεία το προγραφικό το προγραφικό το προγ Τα ποιεία ποι ποιεία το ποιεία το ποιεία ποι ποιεία ποι προγραφικό ποι ποιεία ποι ποιεία ποι ποιεία ποι ποιεία π		48 ⁴
:30	.32 At	1544	222.10	94.14	1188	16.34	ya na katala katala N		6917
100	132 Tasee	1540	222.2.6	94.56	1188	16.28	1.49×140	227	409
30	• 52- Trease • 33-	1535	2.22.36	94.66	1188	16.21	ligen an		8700
1:00	TRACE	1541	22.2.46	94.76	1188	16.24	(44), Weldedorszene y neurospisowe y set ser deda se synow o parja za sa se s		3325
:30	122	1541	222.57	.94.87	1188	110.24	1135 MAN	228	79:00
12100	1 33 Diol	1533	222.65	94.95	1188	16.14	in d ^a mininani karjan Manggunya Babili Sisistanan anal socara komunisti socara karakan sa	229	255
0:30	* 33 TRACE	1525	222.75	95.05	1188	16:04	sand Accumulations V	eny Minule 72.9	171 Z50
1:00 PM	*33 Tagre	153%	222.8	95.1	1188	112,17		· · · · · · · · · · · · · · · · · · ·	oli 40
1:3	+33 Tarce	1536	222.9	95.2	1188	16.13	andre i se den generale de la serve en de antre de la serve de La	~ I	63500
Z.65	:33 Thack	1533	222.97	95.27	1188	16.09	5-22-18 NEW	DA- 231	00 500
2:36-54	137, TOLCON	1533	223.05	95.35	1188	16.07		Reinschlingsgezühlt.	55 5a
100 AH	1233 TRALE	1525	223.11	95,41	11 66	13.98	1,19 ATU	23 2	01 250
:20 ^{A44}	TRALE	1528	223 17	95.47	1188	16.00		23 7	24/7/100
1:00 4111	133 TRALA	1534	223.22	95.62	1188	1605		. 23 3	93 123
30 ^{Aau}	133 T2400	1529	223.37	95.67	1186	15.98			3900
inter-	6. +34 0 +01	1525	223.34	95.65	1188	15.94		and and a state of the second state of the sec	84 750
335 M	134 134 Tapie	1533	223.4	95.7	11886	16.01	an a	239	130 75
100 PW	M Tarce	1524	224.44	95.74	1148	15.91	an a		76 500
1:20 EM	Perce Terre	1533	223,5	95.6	1188	16.0		23 5	22 500
5:00Am	134 Tene	15/10/10	223.54	95764	1/84	15.40	مىيىتىنى بىرىلىرى بىرىلىرى بىرىلىرى بىرىكى بىرىك چېرىدى بىر		T6 800
iz Am	134	1533	223,59	95.49	1148	15.98	e and an experimental and a factor of the second state of the seco		an a
iec ^{Ayr}	Tenco 34 Tonee		223.65	95.95	ł	1			59 50
:30 ^{4m}	Jane Jane	1516	1	95.97	1188	15.74	la construction de la construcción	and the state of the second	105 500
1:00 ¹¹	• 34	1533	723.67	for the second se	1184	15.97	127 Ntu		151152
1130 000	Teres John	1521	723,7	96	1188	15.84		and a feat of the second s	197 000
1 90 [-60 ^{- Mari}	12/11 134 TRACE	1528 1526	222.73	96.03 96.06	1188	15.91	5	G / /	1426

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1390: <u>5-22-18</u> Page <u>12</u>

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8:00 AM	hTRACE	1526	223.76	96.06	1188	ારુક્ષ	FROM LA	ST PAGE			
8:30	TRACE	1530	223.79	96.09	1188	15.92	CRY CLEA	<u>ę</u>		888 133	
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9:30	1.130	1	23.84	<u> </u>	1188	12.88	RH. 4.8	NT4 1.39			
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11:00	TRACE	1526	223951	·96.25	1188	15.85	H		৯শ	1	
11:30	TRACE	1524	223.991	96.29	1188	15,82	ii <		1	163	-
12:00	TRACE	1523	224.01	96.31	1188	15.81	e e et	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	242	108	310
1:00	TRACE	1522	224.07	96.37	1188	1.5.79	SAMPLES	COMPLETE	243	222	630
1:30	TNALE	1522	224.10	96.4	1188	15.78	<u></u>		्रप	डपउ	290
2:30	TRACE	1521	224.13	96.43	11.88	15.77	1	tes se qui e a tallan a ball d'alta d'aran anna an an an anna anna i maran	2	<b>9</b> 9	
3:00	04.01	1521	224-16	96.46			61. 11	₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽	-29	भु उट्ट भु स	537
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\$1.00	TRAS		22421	96.51	1188	15.74	15220	AUG G HRS)	217		
4:30	1 40	1520	224.23	96.53	1188	15.74	*	a a myang panalahanan dalah kara dari dalam kara dari		<u>618</u>	
5:00		12:20	224-25	96.55	1188	15.74	TAKEN.	22 Samples	24	<u>e69</u>	00
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19. C.C.

Layne Cortstensen Compassy

### Date: 5-22-18_ Page 13

#### CLEARNING CITY of INGLEWOOD *7 WELL

Job No. 27- 46675

12"Marcan

MOMGALN 1000

Statis is not <u>127.7'</u> Fast Altas dapa. <u>318.6'</u> Fast

HoursiPage 3.0 Telei Rours <u>82.6</u> g.P.D.

Operator: PORTER

12 ²⁹ 94 ( Ballingia pringen and data of a second					RECOL	IERY.			
Time	P.R.III.	g.r.e.	Pumping Level	Dreike- down	Engine	Specific Capacity	Commente	FAU	TSB
5:00				1			SHUT DOWN END OF	Tr-	
5:02			163.8						<b>F</b>
<u> </u>		-	158.1'						
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510			150.0'					***************************************	
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6:00			139.3						
6:10			138.6'						
6:20			138.0'			1			
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6:45			137.1	·			·• ·*•		
7:00			136.3						
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4-9-4			1		-	1	financia and a second sec		
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# **Certificate of Analysis**

FINAL REPORT

Work Orders:	9D30052	Report Date:	6/04/2019
		Received Date:	5/2/2019
Deninet.	Inglewood, City of, 1910051	Turnaround Time:	Normal
riojeci:		Phones:	310.660.6246
		Fax:	(310) 217-2414
Attn:	Cheryl A. Ross	P.O. #:	W2773
Client:	West Basin Municipal Water District 17140 South Avalon Blvd., Suite 210 Carson, CA 90746-1218	Billing Code:	

## EPA-UCMR #CA00211 * HW-DOH # * ISO 17025 #L2457.01 * LACSD #10143 * NELAP-CA #04229CA * NELAP-OR #4047 * NJ-DEP #CA015 * NV-DEP #NAC 445A * SCAQMD #93LA1006

This is a complete final report. The information in this report applies to the samples analyzed in accordance with the chain-of-custody document. Weck Laboratories certifies that the test results meet all requirements of TNI unless noted by qualifiers or written in the Case Narrative. This analytical report must be reproduced in its entirety.

Dear Cheryl A. Ross,

Enclosed are the results of analyses for samples received 5/02/19 with the Chain-of-Custody document. The samples were received in good condition, at 5.9 °C and on ice. All analyses met the method criteria except as noted in the case narrative or in the report with data qualifiers.

Reviewed by:

Xim In

Kim G. Tu Project Manager









#### 14859 Clark Avenue City of Industry CA, 91745 | Phone: (626) 336-2139 | Fax: (626) 336-2634 www.wecklabs.com

Page 1 of 28



WECK LABORATORIES, INC.

West Basin Municipal Water District 17140 South Avalon Blvd., Suite 210 Carson, CA 90746-1218

#### Sample Summarv

# **Certificate of Analysis**

FINAL REPORT

Project Number: Inglewood, City of, 1910051

Reported: 06/04/2019 14:58

Project Manager: Cheryl A. Ross

			*****	00000000000000000000000000000000000000	
Sample Name	Sampled By	Lab ID	Matrix	Sampled	Qualifiers
Well 7, 1910051-019, Alias: 3961A	Allan Goldberg (wecklabs)	9D30052-05	Water	05/02/19 09:55	
Analyses Accreditation	n Summary				
Analyte		CAS #	F	Not By NELAP	By ANAB
SRL 524M-TCP in Water				· ·	
1,2,3-Trichloropropane		96-18-	4	- J	

1,2,3-Trichloropropane



Sample:

WECK LABORATORIES, INC.

West Basin Municipal Water District 17140 South Avalon Bivd., Suite 210 Carson, CA 90746-1218

### Sample Results

9D300S2-05 (Water)

Well 7, 1910051-019, Alias: 3961A

# **Certificate of Analysis**

FINAL REPORT

Project Number: Inglewood, City of, 1910051

Reported: 06/04/2019 14:58

Project Manager: Cheryl A. Ross

Sampled: 05/02/19 9:55 by Allan Goldberg (wecklabs)

Analyta		Result	MRI.	Units	Dil	Analyzed	Qualifier
Chlorinated Acids Herbicides by GC/ECD			ara		-		
Method: EPA 515.4	Batch ID: W9E0290	Instr: GC08	Prepared: 0	5/07/19 08:28		Analyst: gc08	
2,4,5-T		ND	0.20	ug/l	1	05/11/19 01:28	
2,4,5-TP (Silvex)		ND	0.20	ug/l	1	05/11/19 01:28	
.2,4-D		ND	0.40	ug/l	1	05/11/19 01:28	
2,4-DB		ND	2.0	ug/l	1	05/11/19 01:28	
3,5-Dichlorobenzoic acid		ND	1,0	ug/i	1	05/11/19 01:28	
Acifluorfen		ND	0.40	ug/i	1	05/11/19.01:28	
Bentazon		ND	2.0	ug/i	1	05/11/19 01:28	
Chloramben		, ND	1,0	ug/i	1	05/11/19 01:28	
Dalapon		ND	0,40	ug/l	1	05/11/19 01:28	
DCPA		ND	0.10	ug/l	1	05/11/19 01:28	
Dicamba		ND	0.60	ug/l	1	05/11/19 01:28	
Dichloroprop		ND	0,30	ug/l	ť	05/11/19 01:28	
Dinoseb		ND	0.40	ug/l	1	05/11/19 01:28	
Pentachlorophenol		ND	0.20	ug/i	1	05/11/19 01:28	
Picloram		ND	0.60	ug/l	1	05/11/19 01:28	
Surragate(s) 2,4-DCAA		103% Conc: 10.3	70-130			05/11/19 01:28	
Chlorinated Pesticides and/or PCBs by GC/E	CD						
Method: EPA 508 Toxaphene	Batch ID: W9E0324	Instr: GC07 ND	Prepared: 0: 1.0	5/07/19 12:06 ug/l	1	Analyst: adm 05/10/19 13:44	
Surregate(s) Decachlorobiphenyl		80% Conc.~0.0795	70-130			05/10/19 13:44	
Telrachloro-meta-xylene		89% Conc: 0.0886	70-130			05/10/19 13:44	
			, <b>.</b>				
Conventional Chemistry/Physical Parameter	-						
Method: EPA 353.2 Nitrate as N	Batch ID: W9E0126	Instr: AA01 ND	Prepared: 0: 0.20	5/02/19 15:53 mg/l	1	Analyst: MAT 05/02/19 17:12	
Diquat and Paraquat by EPA 549.2 Method: EPA 549.2	Batch ID: W9E0211	Instr: LC11	Burnesinds Di	5/06/19 08:33		Ampliante inn	
Diquat	BURGERS SED. SARACINE 1 1	ND	4.0	ug/l	1	Analyst: jna 05/16/19 16:58	
Endothall By EPA 548.1							
Method: EPA 548.1	Batch ID: W9E0212	Instr: GCMS06	Prepared: 0	5/06/19 08:36		Analyst: rev	
Endothall		ND	45	ug/l	1	05/08/19 08:31	
Glyphosate by EPA 547							
Method: EPA 547 Glyphosate	Batch ID: W9E0554	Instr: LC10 ND	Prepared: 0. .5.0	5/09/19 16:52 ug/l	1	Analyst: jna 05/09/19 19:42	
Hexavalent Chromium by IC							

9D30052

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WECK LABORATORIES, INC.

West Basin Municipal Water District 17140 South Avalon Blvd., Suite 210 Carson, CA 90746-1218

### Sample Results

**Certificate of Analysis** 

FINAL REPORT

Project Number: Inglewood, City of, 1910051

Project Manager: Cheryl A. Ross

06/04/2019 14:58

Reported:

(Continued)

Sample:	Well 7, 1910051-019, Alias: 3	1961A			Sampled: 05	/02/19	9:55 by Allan Gold	berg (wecklabs
	9D30052-05 (Water)				, ,		,	(Continued
Analyte	·····		Result	MRL	Units	DII	Analyzed	Qualific
lexavalent Ci	hromium by IC (Continued)							
Method: EP/	A 218.6	Batch ID: W9E0214	Instr. LC13	Prepared: 0	5/06/19 08:41		Analyst: jna	
Chromium	n 6+		ND	0.020	ug/l	1	05/06/19 12:10	
ow Level 1,2	.3-TCP by SRL Method, P&T, GC/	MS SIM						
Method: SR	ц. 524М-ТСР	Batch ID: W9E0154	Instr: GCMS04	-	5/03/19 10:40		Analyst: enf	
1,2,3-Triol	hloropropane		ND	0,0050	ug/i	1	05/03/19 16:56	
erchlorate b	y EPA 314.0							
Method: EP/		Batch ID: W9E0363	instr: LC08_Chan	-	5/07/19 15:03	4	Analyst: jan	
Perchloral	ite		ND	2.0	ug/l	4	05/08/19 03:26	
adiological f	Parameters by APHA/EPA Metho	ds						
Method: EP/		Batch ID: W9E0309	Instr: ICPM502		5/07/19 10:16		Analyst: jea	
Uranium F	Rad		ND	0.13	pCi/L	1	05/07/19 17:55	
Method: SM	A 7110C	Batch ID: W9E0201	Instr: RAD01	Prepared: 0	5/04/19 07:56		Analyst: dic	
Gross Alp			1.08		pCi/L	1	05/07/19 08:04	
	•	.: 0.033						
	Organic Compounds by GC/MS							
Method: EP/ Alachior	A 525.2	Batch ID: W9E0137	Instr: GCMS16 ND	Prepared: 0 0,10	15/03/19 08:20 ug/l	Ť	Analyst: imr 05/06/19 18:29	
Atrazine			ND	0.10	ug/i	1	05/06/19 18:29	
Benzo (a)	) pyrene		ND	0.10	ug/l	;	05/06/19 18:29	
	yihexyi)adipate		ND	5.0	ug/l	1	05/06/19 18:29	
	yihexyi)phihelate		ND	3.0	ug/l	1	05/06/19 18:29	
Bromacil	,,,,,,		ND	0.50	ug/l	1	05/06/19 18:29	
Butachior			ND	0,10	ug/l	1	05/06/19 18:29	
Captan			ND	1.0	ug/l	1	05/06/19 18:29	
Chlorprop	ham		ND	0.10	ug/l	1	05/06/19 18:29	
Cyanazin			ND	0.10	ug/l	1	05/06/19 18:29	
Diazinon			ND	0:10	ug/l	1	05/06/19 18:29	
Dimethoa	ite		ND	0.20	ug/l	1	05/06/19 18:29	
Diphenam			ND	0.10	ug/l	1	05/06/19 18:29	
Disulfoton			ND	0.10	ug/l	1	05/06/19 18:29	
EPTC			ND	0.10	ug/l	1	05/06/19 18:29	
Metolachi	lor		ND	0.10	ug/l	1	05/06/19 18:29	
Metribuzir	n		ND	0.10	ug/l	4	05/06/19 18:29	
Molinate			ND	0.10	ug/l	1	05/06/19 18:29	
Prometon	1		ND	0.10	ug/l	1	05/06/19 18:29	
Prometry			ND	0.10	ug/l	1	05/06/19 18:29	
Simazine			ND	0,10	ug/l	3	05/06/19 18:29	

9030052

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WECK LABORATORIES, INC

West Basin Municipal Water District 17140 South Avalon Blvd., Suite 210 Carson, CA 90746-1218

Sample Results

# **Certificate of Analysis**

FINAL REPORT

Project Number: Inglewood, City of, 1910051

Reported: 06/04/2019 14:58

Project Manager: Cheryl A. Ross

(Continued)	
(Consined)	

Sample:	Weli 7, 1910051-019, Alias: 3	3961A			Sampied: 05	/02/19	9:55 by Allan Gold	
	9D30052-05 (Water)							(Continued)
Analyte			Result	MRL	Units	Dil	Analyzed	Qualifier
iemivolatile C	Organic Compounds by GC/MS (	Continued)					·	
Method: EPA Terbacil	4 525.2	Batch ID: W9E0137	Instr: GCMS16 ND	Prepared: 0 2.0	5/03/19 08:20 ug/i	1	Analyst: rmr 05/06/19 18:29	
Thiobenca	urb.		ND	0.10	ug/i	1	05/06/19 18:29	
Trithion			ND	0.10	ug/i	1	05/06/19 18:29	
Surrógate(s)								
1,3-Dimeti	hyl-2-nitrobenzene		97% Conc: 4.84	70-130			05/06/19 18:29	
Perylene-u	d12		101% Conc: 5.05	50-120			05/06/19 18:29	
Triphenyl J	phosphate		119% Conc: 5.95	70-130			05/06/19 18:29	
iemivolatile C	)rganics - Low Level by Tandem	GC/MS/MS						
Method: EPA		Batch ID: W9E0229	Instr: GCMS15		5/07/19 09:35		Analyst: EFC	
2,3,7,8-TC	2DD (Dioxin)		ND	5,00	pg/l	1	05/14/19 15:08	
/olatile Orgar	ilc Compounds by P&T and GC/F	45						
Method: EPA		Batch ID: W9E0132	Instr: GCMS08	•	5/03/19 08:21		Analyst: rdt	
	trachloroethane		ND	0.50	ug/l	1	05/03/19 13:01	
	Noroethane		ND	0.50	ug/l	1	05/03/19 13:01	
	trachloroethane		ND	0,50	ug/l	. 1	05/03/19 13:01	
	hioroethane		ND	0.50	ug/l	1	05/03/19 13:01	
1,1-Dichio			ND	0.50	ug/l	1	05/03/19 13:01	
1,1-Dichlor			ND	0.50	ug/l	4	05/03/19 13:01	
1,1-Dichloi			ND	0.50	ug/l	1	05/03/19 13:01	
	Norobenzene		ND	0.50	ug/l	1	05/03/19 13:01	
	ilorobenzene elhylbenzene		ND ND	0.50 0.60	ug/l	1	05/03/19 13:01 05/03/19 13:01	
1,2-Dichlor	-		ND	0.50	ug/i ug/i	, 1	05/03/19 13:01	
1,2-Dichlo			ND	0.50	ug/i	, 1	05/03/19 13:01	
	ethylbenzene		ND	0.50	ug/i	, 1	05/03/19 13:01	
1,3-Dichlor	-		ND	0.50	ug/i	1	05/03/19 13:01	
	ropropene, Total		ND	0.50	ug/i	1	05/03/19 13:01	
2,2-Dichlor			ND	0,50	ug/l	1	05/03/19 13:01	
2-Butanon			ND	5.0	ug/l	1	05/03/19 13:01	
2-Chloroto	kuene		ND	0.50	ug/i	1	05/03/19 13:01	
2-Hexanor	9 <del>0</del>		ND	5.0	ug/i	1	05/03/19 13:01	
4-Chioroto	luene		ND	0.50	ug/i	1	05/03/19 13:01	
4-Methyl-2	-pentanone		ND	5.0	ug/l	1	05/03/19 13:01	
Benzene			ND	0.50	ug/l	1	05/03/19 13:01	
Bromoben	zene		ND	0,50	ug/l	1	05/03/19 13:01	
Bromochic	vomethane		ND	0.50	ug/l	1	05/03/19 13:01	



WECK LABORATORIES, INC.

West Basin Municipal Water District 17140 South Avalon Blvd., Suite 210 Carson, CA 90746-1218

### Sample Results

# **Certificate of Analysis**

FINAL REPORT

Project Number: Inglewood, City of, 1910051

Project Manager: Cheryl A. Ross

Reported: 06/04/2019 14:58

(Continued)

Sample:	Well 7, 1910051-019, Alias: 3961/	ł			Sampled: 05	/02/19	9:55 by Allan Gold	
	9D30052-05 (Water)							(Continued
Analyte			Result	MRL	Units	Dil	Analyzed	Qualifie
-	nic Compounds by P&T and GC/MS (							
Method: EP	A 524.2 hioromethane	Batch ID: W950132	Instr: GCM508 ND	Prepared: 0 0.50	5/03/19 08:21 ug/î	1	Analyst: rdt 05/03/19 13:01	
Bromoton			ND	0.50	ug/i	1	05/03/19 13:01	
Bromorne			ND	0.50	ug/i	1	05/03/19 13:01	
	strachloride		ND	0.50	ug/i	1	05/03/19 13:01	
Chlorober			ND	0.50	ug/i	1	05/03/19 13:01	
Chloroeth			ND	0.50	ug/l	1	05/03/19 13:01	
Chlorofor			ND	0.50	ug/i	1	05/03/19 13:01	
Chlorome			ND	0.50	ug/i	1	05/03/19 13:01	
	chloroethene		ND	0.50	ug/l	1	05/03/19 13:01	
	ichloropropene		ND	0.50	ug/i	1	05/03/19 13:01	
	hloromethana		ND	0.50	ug/i	1	05/03/19 13:01	
Dibromon			ND	0.50	ug/i	1	05/03/19 13:01	
	ifluoromethane (Freon 12)		ND	0.50	ug/i	ı. 1	05/03/19 13:01	
Di-isoprop			ND	2.0	ug/i	1	05/03/19 13:01	
	butyl ether		ND	2.0	ug/l	1	05/03/19 13:01	
Ethylbenz	-		ND	0.50	ug/i	1	05/03/19 13:01	
Freon 113			ND	5.0	ug/l	1	05/03/19 13:01	
	robutadiene		ND	0.50	ug/l	1	05/03/19 13:01	
Isopropyli	benzene		ND	0.50	ug/l	1	05/03/19 13:01	
m,p-Xyler			ND	0,50	ug/l	1	05/03/19 13:01	
m-Dichlor	obenzene		ND	0.50	ug/l	1	05/03/19 13:01	
Methyl ter	rt-butyl ether (MTBE)		ND	2.0	ug/l	1	05/03/19 13:01	
Methyleni	e chloride		ND	0.50	ug/l	1	05/03/19 13:01	
Naphthale	ene		ND	0.50	ug/l	1	05/03/19 13:01	
n-Butylbe	nzene		ND	0.50	ug/l	1	05/03/19 13:01	
n-Propylb	enzene		ND	0.50	ug/l	1	05/03/19 13:01	
o-Dichloro	obenzene		ND	0.50	ug/l	1	05/03/19 13:01	
o-Xylene			ND	0.50	ug/l	1	05/03/19 13:01	
p-Dichloro	obenzene		ND	0:50	ug/l	1	05/03/19 13:01	
p-lsoprop	yitoluene		ND	0.50	ug/i	1	05/03/19 13:01	
sec-Butyl	benzene		ND	0.50	ug/l	1	05/03/19 13:01	
Styrene			ND	0.50	ug/l	1	05/03/19 13:01	
Tert-amyl	methyl ether		ND	2.0	ug/l	1	05/03/19 13:01	
tert-Bulylt	benzene		ND	0.50	ug/l	1	05/03/19 13:01	
Tetrachior	roethene		ND	0.50	ug/l	1	05/03/19 13:01	

THMs, Total

ND

2.0

ug/l.

1

05/03/19 13:01



WECK LABORATORIES, INC.

West Basin Municipal Water District 17140 South Avalon Blvd., Suite 210 Carson, CA 90746-1218

### Sample Results

# Certificate of Analysis

FINAL REPORT

Project Number: Inglewood, City of, 1910051

Reported: 06/04/2019 14:58

Project Manager: Cheryl A. Ross

(Continued)

Sample	Weil 7, 1910051-019, Allas: 3961A					/02/19	9:55 by Allan Goldt	55 by Allan Goldberg (wecklabs)	
	9D30052-05 (Water)							(Continued)	
Analyte			Result	MRL	Units	DB	Analyzed	Qualifier	
Volatile Organ	ic Compounds by P&T and GC/M!	5 (Continued)							
Method: EPA	X 524,2	Batch ID: W9E0132	Instr: GCMS08	Preparec	: 05/03/19 08:21		Analyst: rdt		
Toluene			ND	0.50	ug/l	1	05/03/19 13:01		
trans-1,2-1	Dichloroethene		ND	0.50	ug/l	1	05/03/19 13:01		
Irans-1,3-E	Dichloropropene		ND	0.50	ug/l	1	05/03/19.13:01		
Trichloroel	thene		ND	0.50	ug/i	t	05/03/19 13:01		
Trichloroflu	uoromethane		ND	0.50	ug/l	1	05/03/19 13:01		
Vinyl chlor	ide		ND	0.50	ug/i	1	05/03/19 13:01		
Xylenes, T	otal		ND	0.1	ug/l	1	05/03/19 13:01		
Surrogate(s)									
1,2-Dichlo	robenzene-d4		98% Co.	nc: 9.81 70-130			05/03/19 13:01		
4-Bromofil	vorobenzene		93% Co	nc: 9.34 70-130			05/03/19 13:01		



# Certificate of Analysis

FINAL REPORT

WECK LABORATORIES, INC.

West Basin Municipal Water District 17140 South Avalon Blvd., Suite 210 Carson, CA. 90746-1218 Project Number: Inglewood, City of, 1910051

Reported: 06/04/2019 14:58

Project Manager: Cheryl A. Ross

### Sample Results LA Testing - EMSL Analytical, Inc. CA-ELAP #2283, Non-NELAP

Sample:	Well 7, 1910051-019 9D30052-05 (Water)			Sampled:	05/02/19 9:	55 by Allan Gold	berg (wecklabs)
Analyte Subcontracted	Analyses	Result	MRI.	Units	011	Analyzed	Qualifier
Method: EPA Asbestos		Batch ID: ND	Prepared: 0.19	05/03/19_13:50 MFL	1	05/15/19	Analyst: _SUB

M		<u>L</u>		
****	*****			

WECK LABORATORIES, INC.

West Basin Municipal Water District 17140 South Avalon Blvd., Suite 210 Carson, CA 90746-1218

# **Certificate of Analysis**

### FINAL REPORT

Project Number: Inglewood, City of, 1910051

Reported: 06/04/2019 14:58

Project Manager: Cheryl A. Ross

Sample Results Pace Analytical Services - Greensburg PA NELAP #04222CA

(Continued)

Sample:	Well 7, 1910051-019				Sampled: 05	/02/19_9:5	5 by Allan Goldl	oerg (wecklabs)
	9D30052-05 (Water)							
Analyte			Result	MRI.	Units	DH I	Analyzed	Qualifier
EPA 903.1								
Method: EPA Radium-22			Batch ID: 342706 8.342	Prepared: 05/2	1/19 00:00 pCi/L dry	1	05/28/19	Analyst: MK1
Uncert	ainty: 0.300	MDA: 0.186						
EPA 904.0								
Method: EPA Radium-22			Batch ID: 342709 0.592	Prepared: 05/2	2/19 00:00 pCi/L dry	1	05/28/19	Analyst: JLW
Uncerta	ainty: 0.405	MDA: 0.806						



### LA Testing

520 Mission Street South Pasadena, CA 91030 Phone/Fax: (323) 254-9960 / (323) 254-9982 http://www.LATesting.com / pasadenalab@latesting.com

LA Testing Order ID: Customer ID: Customer PO: Project ID:	321910583 32WECK62
(626) 336-2139	

Attn:	Kim Tu	Phone:	(626) 336-2139
	Weck Laboratories, Inc.	Fax:	(626) 336-2634
	14859 East Clark Avenue	Received:	05/03/2019
	City of Industry, CA 91745-1396	Analyzed:	05/15/2019
			4

Proj: 9D30052

### Test Report: Determination of Asbestos Structures >10µm in Drinking Water Performed by the 100.2 Method (EPA 600/R-94/134)

						A:	SBESTOS		
Sample ID Client / EMSL	Sample Filtration Date/Time	Original Sample Vol. Filtered	Effective Filter Area	Area Analyzed	Asbestos Typøs	Fibers Detected	Analytical Sensitivity	Concentration	Confidence Limits
		(mi) (	(mm*)	(mm²)				. (million fibers per	liter)
9D30052-05/Well 7, 1910051-019 321910583-0001 Collection Date/Time:	5/3/2019 01:50 PM 05/02/2019 09:1		1288	0.2210	None Detected	ND	0.19	<0,19	0.00 ~ 0.72

Analyst(s) Sherrie Ahmed

(1)

100

Jerry Drapala Ph.D, Laboratory Manager or Other Approved Signatory

Any questions please contact Jerry Drapela.

Initial report from: 05/15/2019 18:51:08

Sample collection and containers provided by the client, acceptable bottle blank level is defined as \$0.01MFL>10tan. ND=None Detected. This report relates only to those items tested. This report may not be reproduced, except in full, without written permission by LA Testing. Samples received in good condition unlass otherwise noted.

Samples analyzed by LA Testing South Pasadena, CA CA ELAP 2283



**Date of Report:** 

Laboratory Name:

Name of Sampler:

Date/Time Sample

Collected:

齹

WECK LABORATORIES, INC.

Analytical Laboratory Service - Since 1964

Sample	ID	No.:	9D30052-05
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Signature Lab Director:

Date Analyses Completed: <u>19/05/16</u>

System Name: INGLEWOOD- CITY, WATER DEPT.

19/06/04

Weck Laboratories, Inc.

Allan Goldberg (wecklabs)

**Date/Time Sample** 

Received @ Lab:

19/05/02 1115

Name or Number of Sample Source: WELL #7 -

19/05/02 0955

Date/Time of Sample:         19 05 02 09 55           YY         MM DD TT TT	User ID: 4TH	
YY MM DD TT TT	Date/Time of Sample:	***
		YY MM DD TT TT

Station Number: 1910051-019

System Number: 1910051

Laboratory Code: 9588

Date of Analyses Completed: 19 05 16 YY MM DD

Submitted By: Weck Laboratories, Inc.

Phone #: (626) 336-2139

TEST		Units	ENTRY	ANALYSES		
METHOD	CHEMICAL		#	RESULTS	MCL	DLR
	REGULATED ORGANIC CHEMICALS					
E524.2	Total Trihalomethanes (TTHMs)	ug/L	82080	ND	80	
E524.2	Bromodichloromethane	ug/L	32101	ND		1
E524.2	Bromoform	ug/L	32104	ND		1
E524.2	Chloroform (Trichloromethane)	ug/L	32106	ND		1
E524.2	Dibromochloromethane	ug/L	32105	ND		1
E524.2	Benzene	ug/L	34030	ND	1	0.5
E524.2	Carbon Tetrachloride	ug/L	32102	ND	0.5	0.5
E524.2	1,2-Dichlarobenzene (o-DCB)	ug/L	34536	ND	600	0.5
E524.2	1,4-Dichlorobenzene (p-DCB)	ug/L	34571	ND	5	0.5
E524.2	1,1-Dichloroethane (1,1-DCA)	ug/L	34496	ND	5	0.5
E524.2	1,2-Dichloroethane (1,2-DCA)	ug/L	34531	ND	0.5	0.5
E524.2	1,1-Dichloroethylene (1,1-DCE)	ug/L	34501	ND	6	0.5
E524.2	cis-1,2-Dichloroethylene (c-1,2-DCE)	ug/L	77093	ND	6	0.5
E524.2	trans-1,2-Dichloroethylene (t-1,2-DCE)	ug/L	34546	ND	10	0.5
E524.2	Dichloromethane (Methylene Chloride)	ug/L	34423	ND	5	0.5
E524.2	1,2-Dichloropropane	ug/L	34541	ND	5	0.5
E524.2	Total 1,3-Dichloropropene	ug/L	34561	ND	0.5	0.5
E524.2	Ethyl Benzene	ug/L	34371	ND	300	0.5
E524.2	Methyl tert-Butyl Ether(MTBE)	ug/L	46491	ND	13	3
E524.2	Monochlorobenzene (Chlorobenzene)	ug/L	34301	ND	70	0,5
E524.2	Styrene	ug/L	77128	ND	100	0.5
E524.2	1,1,2,2-Tetrachloroethane	ug/L	34516	ND	1	0.5
E524.2	Tetrachloroethylene (PCE)	ug/L	34475	ND	5	0.5
E524.2	Toluene	ug/L	34010	ND	150	0.5
E524.2	1,2,4-Trichlorobenzene	ug/L	34551	ND	5	0.5

9D30052-05 : 1910051-019

Page 1 of 4



WECK LABORATORIES, INC.

Analytical Laboratory Service - Since 1964

TEST		Units	ENTRY	ANALYSES		
METHOD	CHEMICAL	Units	CN17.1	RESULTS	MCL	DLF
	REGULATED ORGANIC CHEMICALS		77 	11000010	181.7 5	*
E524.2	1,1,1-Trichloroethane (1,1,1-TCA)	ug/L	34506	ND	200	0.9
E524.2	1,1,2-Trichloroethane (1,1,2-TCA)	ug/L	34511	ND	5	0.
E524.2	Trichloroethylene (TCE)	ug/L	39180	ND	5	0.
E524.2	Trichlorofluoromethane (FREON 11)	ug/L	34488	ND	150	
E524.2	Trichlorotrifluoroethane (FREON 113)	ug/L	81611	ND	1200	1
E524.2	Vinyl Chloride (VC)	ug/L	39175	ND	0.5	0.
E524.2	m,p-Xylene	ug/L	A-014	ND		0. 0.
E524.2	o-Xylene	ug/L	77135	ND		0.
E524.2				1	4750	U.
	Total Xylenes (m,p, & o)	ug/L	81551	ND	1750	
E508	Toxaphene	ug/L	39400	ND	3	
E525.2	Molinate (ORDRAM)	ug/L	82199	ND	20	
E525.2	Simazine (PRINCEP)	ug/L	39055	ND	4	
E525.2	Thiobencarb (BOLERO)	ug/L	A-001	ND	70	
E525.2	Alachlor (ALANEX)	ug/L	77825	ND	2	
E515.4	Bentazon (BASAGRAN)	ug/L	38710	ND	18	
E1613	2,3,7,8-TCDD (Dioxin) Units=picogram/L	pg/L	34676	ND	30	
E515.4	2,4-D	ug/L	39730	ND	70	1
E515.4	2,4,5-TP (SILVEX)	ug/L	39045	ND	50	
E515.4	Dalapon	ug/L	38432	ND	200	1
E515.4	Dinoseb (DNBP)	ug/L	81287	ND	7	
E549.2	Diquat	ug/L	78885	ND	20	
E525.2	Di(2-ethylhexyl) Adipate	ug/L	A-026	ND	400	
E548.1	Endothall	ug/L	38926	ND	100	4
E547	Glyphosate	ug/L	79743	ND	700	2
E515.4	Pentachlorophenol (PCP)	ug/L	39032	ND	1	0.
E515.4	Picloram	ug/L	39720	ND	500	•••
	UNREGULATED ORGANIC CHEMICALS	~ <del>9</del> .~	VV		000	
E524.2	tert-Amyl Methyl Ether (TAME)	ug/L	A-034	ND		
E524.2	Bromobenzene	ug/L	81555	ND		Ō.
E524.2	Bromochloromethane	ug/L	A-012	ND		0.
E524.2	Bromomethane (Methyl Bromide)	ug/L	34413	ND		0. 0.
E524.2	n-Butylbenzene	ug/L	A-010	ND	-	0. 0.
E524.2	sec-Butylbenzene	ug/L	77350	ND		0.
E524.2	tert-Butylbenzene	ug/L	77353	ND		0.
E524.2	Chloroethane	ug/L	34311	ND		0.
E524.2	Chloromethane (Methyl Chloride)	ug/L	34418	ND		0.
E524.2	2-Chlorotoluene	ug/L	A-008	ND		0.
E524.2	4-Chlorotoluene	ug/L	A-009	ND		0.
E524.2	Dibromomethane	ug/L	77596	ND		0.
E524.2	1,3-Dichlorobenzene (m-DCB)	ug/L	34566	ND		D.
E524.2	Dichlorodifluoromethane (Freon 12)	ug/L	34668	ND		0.
E524.2	1,3-Dichloropropane	ug/L	77173	ND		0.
E524.2	2,2-Dichloropropane	ug/L	77170	ND		0.

9D30052-05 : 1910051-019

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TEST METHOD WECK LABORATORIES, INC.

			Analytica: La	boratory Service	e · Since 1964
	Units	ENTRY	ANALYSES		
CHEMICAL		#	RESULTS	MCL	DLR
UNREGULATED ORGANIC CHEMICALS					
1,1-Dichloropropene	ug/L	77168	ND		0.5
Diisopropyl Ether (DIPE)	ug/L	A-036	ND		3
Ethyl tert-Butyl Ether (ETBE)	ug/L	A-033	ND		3
Hexachlorobutadiene	ug/L	34391	ND		0.5
Isopropylbenzene (Curnene)	ug/L	77223	ND		0.5
p-Isopropyltoluene	ug/L	A-011	ND		
Naphthalene	ug/L	34696	ND		0.5
n-Propylbenzene	ug/L	77224	ND		0.5
1,1,1,2-Tetrachloroethane	ug/L	77562	ND		0.5
1,2,3-Trichlorobenzene	ug/L	77613	ND		0.5
1,2,3-Trichloropropane	ug/L	77443	ND	0.005	0.005
1,2,4-Trimethylbenzene	ug/L	77222	ND		0.5
1,3,5-Trimethylbenzene	ug/L	77226	ND		0.5
Methyl Ethyl Ketone (MEK, Butanone)	ug/L	81595	ND		5
Methyl Isobutyl Ketone (MIBK)	ug/L	81596	ND		5
Bromacil (HYVAR)	ug/L	82198	ND		10
Butachlor	ug/L	77860	ND		0.38
DCPA (total di & mono acid degradates)	ug/L	A-045	ND		
Diazinon	ug/L	39570	ND		
Dicember (BANIVEL)	2109/8	02082	ND		1 5

	UNREGULATED ORGANIC CHEMICALS	******				
E524.2	1,1-Dichloropropene	ug/L	77168	ND		0.5
E524.2	Diisopropyl Ether (DIPE)	ug/L	A-036	ND		3
E524.2	Ethyl tert-Butyl Ether (ETBE)	ug/L	A-033	ND		3
E524.2	Hexachlorobutadiene	ug/L	34391	ND		0.5
E524.2	Isopropylbenzene (Cumene)	ug/L	77223	ND		0.5
E524.2	p-Isopropyitoluene	ug/L	A-011	ND		
E524.2	Naphthalene	ug/L	34696	ND		0.5
E524.2	n-Propylbenzene	ug/L	77224	ND		0.5
E524.2	1,1,1,2-Tetrachloroethane	ug/L	77562	ND		0.5
E524.2	1,2,3-Trichlorobenzene	ug/L	77613	ND		0.5
SRL524	1,2,3-Trichloropropane	ug/L	77443	ND	0.005	0.005
E524.2	1,2,4-Trimethylbenzene	ug/L	77222	ND		0.5
E524.2	1,3,5-Trimethylbenzene	ug/L	77226	ND		0.5
E524.2	Methyl Ethyl Ketone (MEK, Butanone)	ug/L	81595	ND		5
E524.2	Methyl Isobutyl Ketone (MIBK)	ug/L	81596	ND		5
E525.2	Bromacil (HYVAR)	ug/L	82198	ND		10
E525.2	Butachlor	ug/L	77860	ND		0.38
E515.4	DCPA (total di & mono acid degradates)	ug/L	A-045	ND		
E525.2	Diazinon	ug/L	39570	ND		
E515.4	Dicamba (BANVEL)	ug/L	82052	ND		1.5
E525.2	Metribuzin	ug/L	81408	ND		
E525.2	Prometryn (CAPAROL)	ug/L	39057	ND		2
E525.2	Terbacil	ug/L	38882	ND		
	*** EPA Test Method 525.2					
E525.2	Metolachlor	ug/L	39356	ND		
CEDE O	*** EPA Test Method 527		38458	AID.		
E525.2	Dimethoate (CYGON)	ug/L	36428	ND		*****
E515.4	AGRICULTURAL AND MISC ORGANIC	100/1	70102	ND		
	Aciflurfen	ug/L	79193 92051	ND ND		
E515.3	Amiben (CHLORAMBEN)	ug/L	82051		.4	0.5
E525.2	Atrazine (AATREX)	ug/L	39033	. ND	1	0.5 0.1
E525.2	Captan (Captane) Carbophenothion (TRITHION)	ug/L	39640	ND		0.1
E525.2		ug/L	39786	ND ND		
E525.2	Chloropropham (CIPC)	ug/L	81322	ND ND		
E525.2	Cyanazine (BLADEX)	ug/L	81757 39749	ND		
E515.4 E515.4	2,4-DB	ug/L	38746 82356	ND ND		
	Dichlarprop cis-1,3-Dichlaropropene (D-D)	ug/L	1		0.5	
E524.2		ug/L	34704 34699	ND	0.5 0.5	
E524.2 E525.2	trans-1,3-Dichloropropene	ug/L	34699 78004	ND ND	0.0	100
	Diphenamide (ENIDE) Disulfoton	ug/L	81888	ND ND		100
E525.2	· · ·	ug/L		ND		
E525.2	EPTC (EPTAM) Bromoton / REONITOL )	ug/L	81894	ND		
E525.2	Prometon (PROMITOL)	ug/L	39056	ND		
			l		1	



WECK LABORATORIES, INC.

Analytical	Laboratory	Service	- Siace	1964

TEST		Units	ENTRY	ANALYSES	8801	
METHOD	CHEMICAL		#	RESULTS	MCL	DLR
FEAE A	AGRICULTURAL AND MISC ORGANIC	e constanti da	00730		40	
E515.4	2,4,5-T	ug/L	39740	ND	10	
	Total Cations & Total Anions Meq/L Value					
E353.2	Nitrate (as N) (mg/L)	mg/L	00618	ND	10	0.4
	ADDITIONAL ANALYSES					
E314	Perchlorate (ug/L)	ug/L	A-031	ND	6	4
E218.6	Chromium, hexavalent (CrVI) (ug/L)	ug/L	01032	ND		1
000000000000000000000000000000000000000	BNÁ	***************************************	**********************	***************************************	***************************************	***********
E525.2	Benzo (a) Pyrene (*)	ug/L	34247	ND	0.2	0.1
E525,2	Diethylhexylphthalate (DEHP) (*)	ug/L	39100	ND	4	3
	TITLE 22 CALIFORNIA CODE OF REGULATIONS - SECT	ON 64442 (22	CCR 64442	)		
S7110C	Gross Alpha	pCi/L	01501	Í ND	15	3
S7110C	Gross Alpha Counting Error	pCi/L	01502	0.124		
S7110C	Gross Alpha MDA95 *	pCi/L	A-072	0.033		
E200.8	Uranium	pCi/L	28012	ND	20	1

Laboratory Comments and Description of Additional Components Found (Comments in this section are for Client Information only and will <u>NOT</u> be transmitted to CDPH via EDT):

Well 7, 1910051-019 :

	Enthalpy Analytical, LLC 931 W. Barkley Ave - Orange, CA 92868 Tel: (714)771-6900 Fax: (714)538-1209 www.enthalpy.com info-sc@enthalpy.com		
Client: Address:	City of Inglewood 1 West Manchester Blvd. Inglewood, CA 90301	Lab Request: Report Date: Date Received: Client ID:	
Attn:	Thomas Lee		
Comments:	Inglewood Well 7		

Sample for Herbicides and Semivolatiles could not be analyzed by the sub-lab, due to the preservation. Please see attached for all results.

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 402874-001 Well 7-Well Blend

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.

alin

Report Review performed by: Diane Galvan, Project Manager

NOTE: Unless notified in writing, all samples will be discarded by appropriate disposal protocol 60 days from date received. The reports of the Enthalpy Analytical, inc. are confidential property of our clients and may not be reproduced or used for publication in part or in full without our written permission. This is for the mutual protection of the public, our clients, and ourselves.



8	ito:	-						
Client Sample	9 ₩: Well 7-V	/ell Blend		Samı	ole Type:			
	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Prep Method:	Method							
		1						
Prep Method:	Method					QC8atchtD	QQ	21191480
	7.86	1	******	pH Units		05/23/18 10:00	WW	T2
Prep Method:	See Attacher					QCBatchiD		
		1						
Pran Method	FFA 3010A					OCB38cbi0		119141
		5	250	воД	05/23/18			D2
		1		-				
		1						
	83.2	1	5					
	ND	5	5	ug/L	05/23/18			D2
	233	5	25	ug/L	05/23/18			
	ND	. 1	1	ug/L	05/23/18			
	70200	200	20000	ug/L	05/23/18			
	ND	5	10		05/23/18	05/23/18	SBW	DZ
	4.13	1	3		05/23/18	05/23/18	SBW	
	375	5	125	-	05/23/18	05/23/18 \$	SBW	
	ND	1	.5	-	05/23/18	05/23/18 5	SBW	
· · · · · · · · · · · · ·	25400	20	1000		05/23/18	05/23/18 8	SBW	
	158	1	10	_				
	ND	1	5					
	2.84	1	2		05/23/18			
	ND	1	5		بحاجاته والرادات	an		
		200						
		1	1					
		5	25					D2
	ND	1		· · · · · · · · ·	a a a' a a a' a a' a a'			
Dran Madhavi	tiathod			·····				
i rop monazi.		1			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	GODBORD	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	~~~~~
Prep Method:								119168
	ND	1	3	ug/L				P2
Prep Method:	EPA 245.1					QCBatchID:	: QC	119160
	ND	1	0.4	ug/L	05/29/18	05/29/18	JP	
Prep Method:	Method					QC8atchID:	QC	119146
	106	1	1	mg/L	05/24/18	05/23/18 14:26	JP	
	0.418	1	0.2	mg/L	05/24/18	05/23/18 14:26	JP	
	ND	1	0.44	mg/L	05/24/18	05/23/18 14:26	JP	
	ND	1	0.1	mg/L	05/24/18	05/23/18 14:26	JP	
	ND	1	0.44	mg/L	05/24/18	05/23/18 14:26	ĴÞ.	
	ND	1	0.1	mg/L	05/24/18	05/23/18 14:26	JP	
	ND	1	0.33	mg/L	05/24/18	05/23/18 14:26	JP	
	80.6	1	0.5	mg/L	05/24/18	05/23/18 14:26	JP	
Prep Method	EPA 314 0					QCBalchiO ⁻	00	
		1	4	ya/L	05/31/18			
Press State			τ.	~9.~				446420
Frep Method:			201		05/00/40-00-00			.119140
	NU	1	0.04	mg/L	00/22/18/20:00	00/22/18 21:50	N٣	
		~~~~		*********	********	***************************************	~~~~~	
Prep Method:	Method					QCBaichID:		
	S Client Sample Prep Method: Prep Method: Prep Method: Prep Method: Prep Method: Prep Method: Prep Method: Prep Method:	Site: Client Sample #: Well 7-W Result Prep Method: Method 7.86 Prep Method: Method 7.86 Prep Method: See Attached ND ND ND 83.2 ND 233 ND 70200 ND 4.13 375 ND 233 ND 70200 ND 4.13 375 ND 25400 158 ND 25400 158 ND 2.84 ND ND ND ND ND ND ND ND ND ND ND ND ND	Result DF Prep Method: Method 1 Prep Method: Method 7.86 1 Prep Method: See Attached 1 Prep Method: See Attached 1 Prep Method: See Attached 1 Prep Method: EPA 3010A ND 5 ND ND 1 ND ND 1 ND ND 1 ND ND 1 See Attached ND 1 ND ND 1 See Attached 10 233 5 ND 1 See Attached 10 1 See Attached 10 1 See Attached ND	Site: Client Sample #: Well 7-Well Blend Prep Method: Method 1 Prep Method: 1 1 Prep Method: See Attached 1 Prep Method: See Attached 1 Prep Method: See Attached 1 Prep Method: EPA 3010A 1 6 ND 5 250 ND 1 6 ND 1 2 83.2 1 5 5 233 5 25 ND 1 1 70200 200 20000 20000 1 1 4.13 1 3 375 5 125 ND 1 5 100 1 10 ND 1 5 100 1 1 1 70200 200 1000 158 1 10 ND 1 5 5 1 1 1 ND 1	Site: Sample #: Well 7-Well Blend RDL Units Prep Method: Method 1 Prep Method: Method Prep Method: Method 1 Prep Method: See Attached Prep Method: See Attached 1 Prep Method: See Attached Prep Method: See Attached 1 9 Prep Method: See Attached 1 9 Prep Method: See Attached 1 9 ND 5 250 0g/L ND 1 6 0g/L ND 1 1 0g/L ND 5 5 0g/L ND 1 1 0g/L ND 1 1 0g/L ND 5 10 0g/L ND 1 3 0g/L ND 1 10 0g/L ND 1 10 0g/L ND 1 10 0g/L	Site: Client Sample #: Well 7-Well Blend Sample Type: Result DF RDL Units Prepared Prep Method: Method 1 1 1 1 Prep Method: Method 1 1 1 1 Prep Method: See Attached 3 0<	Site: Sample 3: Viell 7-Well Blend Sample Type: Result DF RDL Units Prepared Analyzed Prep Method: Method 0CBatchID 0CBatchID 1 0CCBatchID 0CCBatchID Prep Method: See Altached 0CCBatchID 7.86 1 pH Units 05/23/18 05/23/18 Prep Method: See Altached 0CCBatchID 0CCBatchID ND 5 250 ugfL 05/23/18 05/23/18 ND 1 6 ugfL 05/23/18 05/23/18 05/23/18 ND 1 6 ugfL 05/23/18 05/23/18 05/23/18 ND 1 1 ugfL 05/23/18 05/23/18 05/23/18 ND 1 1 ugfL 05/23/18 05/23/18 05/23/18 ND 1 1 ugfL 05/23/18 05/23/18 05/23/18 05/23/18 05/23/18 05/23/18 05/23/18 05/23	Site: Sample J: Sample Type: Result DF RDL Units Prepared Analyzed By OCBatchID Prep Method: 1

Analytical Results Report Lab Request 402874, Page 2 of 23 Enthalpy Analytical, LLC

Collector:

Matrix:	Drinking Water	Client:	City of Inglewood
Sampled:	05/22/2018 15:55	Site:	
Sample #:	402874-001	Client Sample #:	Well 7-Well Blend

Sample Type:

Analyte See Attached	Result	DF	RDL	Units	Prepared	Analyzed By	Notes
	Prep Method: 5030B		10			QCBatchID: C	C1191405
1,1,1,2-Tetrachloroethane	ND	1	. 0.5	ug/L		05/23/18 LZ	01101400
1,1,1-Trichloroethane	ND	1	0.5	ug/L		05/23/18 LZ	
1,1,2,2-Tetrachloroethane	ND	1	0.5	ug/L		05/23/18 LZ	-
1,1,2-Trichloroethane	ND	1	0.5	ug/L		05/23/18 LZ	
1,1,2-Trichlorotrifluoroethane	ND		10	ug/L		05/23/18 LZ	
1,1-Dichloroethane	ND	1	0.5	ug/L		05/23/18 LZ	
1,1-Dichloroethene	ND	1	0.5	ug/L		05/23/18 LZ	
1,1-Dichloropropene	. ND	1	0.5	ug/L		05/23/18 LZ	
1,2,3-Trichlorobenzene	ND	· '	0.5	ug/L		05/23/18 LZ	
1,2,4-Trichlorobenzene	· ND	1	0.5	ug/L		05/23/18 LZ	
1,2,4-Trimethylbenzene	• ND	1	0.5	ug/L		05/23/18 LZ	
1,2-Dibromo-3-chloropropane	ND	1	0.5	ug/L		05/23/18 LZ	
1,2-Dibromoethane	ND	· · · · · · · · · · · · · · · · · · · · ·	0,5	ug/L		05/23/18 LZ	
1,2-Dichlorobenzene	ND	1	0,5	ug/L		05/23/18 LZ	
1,2-Dichloroethane	ND	1	0.5	ug/L		05/23/18 LZ	
1,2-Dichloropropane	ND	1	0.5	ug/L.		05/23/18 LZ	
1,3,5-Trimethylbenzene	ND		0.5			05/23/18 LZ	
1,3-Dichlorobenzene	ND	1	0.5	ug/L ug/L		05/23/18 LZ	
1,3-Dichloropropane	ND	1	0.5			05/23/18 LZ	
1,4-Dichlorobenzene	ND	1	0.5	ug/L		05/23/18 LZ	
2,2-Dichloropropane	ND	· · · · · · · · · · · · · · · · · · ·	0.5	ug/L		05/23/18 LZ	• • <i>•</i>
2-Chlorotoluene	ND	1	0.5	ug/L		05/23/18 LZ	
4-Chlorotoluene	ND	1	0.5	ug/L		05/23/18 LZ	
	ND	1	0.5	ug/L		05/23/18 LZ	
4-Isopropyltoluene Benzene		· /		ug/L			
Bromobenzene	ND	1	0.5 0.5	ug/L			
Bromochloromethane	ND	1.	0.5	ug/L			
	ND	•		ug/L			
Bromodichloromethane	ND	1	0.5	ug/L		05/23/18 LZ 05/23/18 LZ	
Bromoform	ND	1	0.5	ug/L			
Bromomethane	ND	1.	0.5	ug/L		05/23/18 LZ	
Carbon Tetrachloride	ND	1	0.5	ug/L		05/23/18 LZ	
Chlorobenzene	ND	·	0,5	ug/L		05/23/18 LZ	• •
Chlorodibromomethane	ND	1	0.5	ug/L		05/23/18 LZ	
Chloroethane	ND	1	0.5	ug/L		05/23/18 LZ	
Chloroform	ND	1	. 0.5	ug/L		05/23/18 LZ	
Chloromethane	ND		0.5	ug/L		05/23/18 LZ	
cls-1,2-Dichloroethene	ND	1	0.5	ug/L		05/23/18 LZ	
cis-1,3-dichloropropene	ND	1	. 0.5	ug/L		05/23/18 LZ	
Dibromomethane	ND	1	0.5	ug/L		05/23/18 LZ	
Dichlorodifluoromethane	ND	1	0.5	ug/L		05/23/18 LZ	
Ethylbenzene	ND	1	0,5	ug/L		05/23/18 LZ	
Hexachlorobutadiene	ND ND	1	0.5	ug/L		05/23/18 LZ	
Isopropylbenzene	ND	1	0.5	ug/L		05/23/18 LZ	
m and p-Xylene	ND	1 	0.5	ug/L		05/23/18 LZ	
Methylene chloride	ND	1	0.5	ug/L		05/23/18 LZ	
Methyl-t-butyl Ether (MTBE)	, ND	1	3	ug/L		05/23/18 LZ	
Naphthalene .	ND	1	0.5	ug/L		05/23/18 LZ	
N-butylbenzene	ND	1	0.5	ug/L		05/23/18 LZ	
N-propylbenzene	ND ND ND		0.5	Tug/Li		05/23/18 LZ	



Matrix: Drinking Water		nt: City of	Inglewood		Co	llector:	
Sampled: 05/22/2018 15:55 Sample #: <u>402874-001</u>	S Client Sample	ite: * #: Well 7-	Well Blend		Sample	ә Туре:	
Analyte		Result	DF	RDL	Units	Prepared	Analyzed By Notes
Sec-butylbenzene		ND	1	0.5	ug/L		05/23/18 LZ
Styrene		ND	1	0.5	ug/L		05/23/18 LZ
Tert-butylbenzene		ND	1	0.5	ug/L		05/23/18 LZ
Tetrachloroethene		ND		0.5	ug/L		05/23/18 LZ
Toluene		ND	1	0.5	ug/L		05/23/18 LZ
trans-1,2-dichloroethene		ND	1	0.5	ug/L		05/23/18 LZ
trans-1.3-dichloropropene		ND	1	0.5	ug/L		05/23/18 LZ
Trichloroethene		ND	1	0.5	ug/L		05/23/18 LZ
Trichlorofluoromethane		ND	1	5	ug/L		05/23/18 LZ
Vinyl Chloride		ND	1	0.5	ug/L		05/23/18 LZ
Xylenes (Total)		ND	1	0.5	ug/L		05/23/18 LZ
<u>Surrogate</u>		<u>%</u>	<u>Recovery</u>	<u>Limits</u>	<u>Notes</u>		
1,2-Dichloroethane-d4 (SUR)			98	70-145			
4-Bromofluorobenzene (SUR)			109	70-145			
Dibromofluoromethane (SUR)			102	70-145			
Toluene-d8 (SUR)			100	70-145			
Method: EPA 531.1	Prep Method: 1	Method					QCBatchID:
See Attached			1	,			
Method: EPA 547	Prep Method:	Method					QCBatchID:
Glyphosate	See .	Attached	1				
Method: EPA 548:1	Prep Method:	Method					QCBatchiD:
Endothall	See	Attached	1				
Method: EPA 549.2	Prep Method:	Method					QCBatchID:
See Attached			1	*******	***************************************		
Method: EPA 900.0	Prep Method:	Method			****		QCBaichID
See Attached			1				
Method: SM 2120-8	Prep Method:	Mathand					OCBatchID: QC1191475
Color	s rog morney.	ND	1	5	Color Unit		05/23/18 10:00 WW
Method: SM 2130-8	Deres & Bartha and			-			QCBatchiD: QC1191479
Turbidity	Prep Method:	Mélhod 0.75	1	0,1	NTU		05/23/18 10:00 WW
			1	Ų.1	810		
Method: SM 2150-B	Prep Method:						QC8atchID: QC1191476
Odor Threshold		ND	1	1	T.O.N		05/23/18 10:00 WW
Method: SM 2320-8	Prep Method:						QCBatchID: QC1191732
Bicarbonate (HCO3)		310	2.5	12.5	mg/L		05/31/18 WW
Carbonate (CO3)		ND	2.5	12.5	mg/L		05/31/18 WW
Hydroxide (OH)		ND	2.5	12.5	mg/L		05/31/18 WW
Total Alkalinity (as CaCO3)		260	2.5	12.5	mg/L		05/31/18 WW
Method: SM 2340-B	Prep Method:	~~~~~		·····			QCBatchID: QC1191410
Total Hardness		279	1	0.5	mg/L	05/23/18	
Method: SM 2510-B	Prep Method:	Method					QC8atchID: QC1191641
Specific Conductance		970	1	1	umhos/cm		05/29/18 TD
Method: SM 2540-C	Prep Method:	SM 2540-C				·····	QCBaichID: QC1191661
Total Dissolved Solids		512	2	20	mg/L	05/29/18	05/29/18 TD
Method: SM 4500-CN-E	Prep Method:	Method					QCBatchID: QC1191459
Cyanide		ND	1	0.01	mg/L	05/23/18	05/23/18 TP
Method: SM 4500-SIO2-C	Prep Method:						OCBatchiD: QC1191443
Silica	a napi wasanou.	Weblog 35	-5	5	mg/L	05/23/18	05/23/18 TP
1933 Q Q			ل ۵۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰	U.		01 10 and 20 5	500200 3.1

Analytical Results Report Lab Request 402874, Page 4 of 23



Certificate of Analysis

Work Orders:	9E02018	Report Date:	5/15/2019
		Received Date:	5/2/2019
Brainet	Well# 7	Turnaround Time:	Normal
r rojeci.		Phones:	(310) 412-8890
		Fax:	(310) 330-5798
Attn:	Ismael Perez	P.O. #:	
Client:	City of Inglewood 359 North Eucalyptus Avenue Inglewood, CA 90302	Billing Code: *	

Dear Ismael Perez :

Enclosed are the results of analyses for samples received 5/2/2019 with the Chain-of-Custody document. The samples were received in good condition, at 5.9 °C and on ice. All analysis met the method criteria except as noted in the case narrative or in the report with data qualifiers.

Sample Results

Sample:	Well #7				Sampled: 05	/02/19 11	0:15 by Allan Goldberg	; (wecklabs)
	9E02018-01 (Water)							
Analyte			Result	Mri	Units	08	Analyzed	Qualifier
Method: SN	4 92158	Batch ID: W9E0239	Instr: _ANALY5T	Prepared:	05/02/19 13:53		Analyst: jns	
	and the second		ND	1.0	CFU/ml	1	05/04/19 11:40	
	phic Plate Count Well #7					5/02/19 1	9:55 by Allan Goldberg	
						5/02/19 !		
	Well #7					5/02/19 § Dil		
Sample:	Well #7 9E02018-02 (Water)	Batch (D: W9E0205		MRL	Sampled: 05		9:55 by Allan Goldberg) (wecklabs
Sample: Analyte	Well #7 9E02018-02 (Water)		Result	MRL	Sampled: 05 Onits		9:55 by Allan Goldberg Analyzed) (wecklabs

APPENDIX 4

Vulnerability Assessment and Monitoring Frequency Guidelines LGLE

STATE WATER RESOURCES CONTROL BOARD, DIVISION OF DRINKING WATER (DDW) Vulnerability Assessment and Monitoring Frequency Guidelines Source Class Code: LGLE, Community Water System, Groundwater, Population > 3300 Monitoring Period: January 1, 2017 to December 31, 2019

INORGANIC CHEMICALS Table 64431-A	MCL (mg/L)	Vulnerability	Monitoring Frequency
Aluminum (See Also Secondary Standards)	1.	N/A	Every Three Years
Antimony	0.006	N/A	Every Three Years
Arsenic	0.010	N/A	Every Three Years
		Non-Vulnerable	Waived
Asbestos	7 MFL*	Vulnerable	Once during this period if your source(s) is listed in the Asbestos Table ¹
Barium	1.	N/A	Every Three Years
Beryllium	0.004	N/A	Every Three Years
Cadmium	0.005	N/A	Every Three Years
Chromium	0.05	Ň/A	Every Three Years
Cyanide	0.15	Vulnerable	Every Three Years
Fluoride	2.0	N/A	Every Three Years
Hexavalent Chromium	0.010	N/A	Every Three Years
Mercury	0,002	N/A	Every Three Years
Nickel	0.1	N/A	Every Three Years
Nitrate (as Nitrogen)	10.	N/A	Annually if $< 1/2$ MCL Quarterly if $\geq 1/2$ MCL but \leq MCL
Nitrite (as Nitrogen)	. 1.0	N/A	Every Three Years if $< 1/2$ MCL Quarterly if $\ge 1/2$ MCL but \le MCL
Perchlorate	0.006	N/A	Every Three Years Annually if your source(s) is listed in the Perchlorate Table ² Quarterly if \geq DLR but \leq MCL
Selenium	0.05	N/A	Every Three Years
Thallium	0.002	N/A	Every Three Years

*MFL - Million fibers per liter, MCL for fibers exceeding 10 um in length

¹DDW has determined certain sources to be vulnerable to asbestos contamination due to a review of USGS information. The enclosed Asbestos Table indicates which source is vulnerable to asbestos. You do not need to conduct monitoring if an Asbestos Table is not enclosed.

²DDW requires some sources to have annual perchlorate monitoring due to known contamination. The enclosed Perchlorate Table indicates which source needs annual perchlorate monitoring. You do not need to conduct annual monitoring if a Perchlorate Table is not enclosed.

³If you submitted a waiver request for Thiobencarb, please refer to the enclosed Thiobencarb Table for monitoring requirements.

Page 1 of 4

GENERAL MINERAL Section 64449 (b)(2)	MCL (mg/L)	Vulnerability	Monitoring Frequency
Bicarbonate Alkalinity \sim		N/A	Every Three Years
Calcium		N/A	Every Three Years
Carbonate Alkalinity			Every Three Years
Hydroxide Alkalinity			Every Three Years
Magnesium			Every Three Years
Sodium			Every Three Years
Total Hardness			Every Three Years
pH	· · · · · · · · · · · · · · · · · · ·		Every Three Years
SECONDARY STANDARDS Tables 64449-A	MCL (mg/L)	Vulnerability	Monitoring Frequency
Aluminum	0.2 mg/L		Every Three Years
Color	15 Units		Every Three Years
Copper	1.0 mg/L		Every Three Years
Foaming Agents (MBAS)	0.5 mg/L	N/A	Every Three Years
Iron	0.3 mg/L		Every Three Years
Manganese	0.05 mg/L	N/A	Every Three Years
Odor - Threshold	3 Units	N/A	Every Three Years
Silver	0.1 mg/L	N/A	Every Three Years
Thiobencarb	0.001 mg/L	N/A	Follow monitoring requirement in Table 64444-A Part (b)
Turbidity	5 NTU	N/A	Every Three Years
Zinc	5.0 mg/L	N/A	Every Three Years
Methyl-tert-butyl ether (MTBE)	0.005 mg/L	N/A	Follow monitoring requirement in Table 64444-A Part (a)
SECONDARY STANDARDS Tables 64449-B	MCL (mg/L)	Vulnerability	Monitoring Frequency
Total Dissolved Solids (TDS)	500-1000 mg/L	N/A	Every Three Years
Specific Conductance	900 - 1600 umhos	N/A	Every Three Years
Chloride	250-500 mg/L	N/A	Every Three Years
Sulfate	250-500 mg/L	N/A	Every Three Years
RADIONUCLIDES Sections 64442 and 64443	MCL (pCi/L)	Vulnerability	Monitoring Frequency
Gross Alpha Particle Activity	15		topes must be monitored at least once per 9-year cycle.
Combined Radium-226 and Radium-228	5	Based on your last round of mon	
Uranium	20		e in 9 years collect 1 sample in 6 years , collect 1 sample in 3 years
Tritium Strontium	20,000	Non-Vulnerable, unless notified	Waived, unless notified by DDW
Beta/photon emitters	4 millirem/year		

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VOLATILE ORGANIC CHEMICALS (VOCs) Table 64444-A Part (a)	MCL (mg/L)	Vulnerability	Monitoring Frequency
Benzene	0.001	Vulnerable	Annually Quarterly if \geq DLR but \leq MCL Monthly if $>$ MCL
Carbon Tetrachloride	0.0005	Vulnerable	As Above
1,2-Dichlorobenzene	0.6	Vulnerable	As Above
1,4-Dichlorobenzene	0.005	Vulnerable	As Above
1,1-Dichloroethane	0.005	Vulnerable	As Above
1,2-Dichloroethane	0.0005	Vulnerable	As Above
1,1-Dichloroethylene	0.006	Vulnerable ·	As Above
cis-1,2-Dichloroethylene	0.006	Vulnerable	As Above
trans-1,2-Dichloroethylene	0.01	Vulnerable	As Above
Dichloromethane	0.005	Vulnerable	As Above
1,2-Dichloropropane	0.005	Vulnerable	As Above
1,3-Dichloropropene	0.0005	Vulnerable	As Above
Ethylbenzene	0.3	Vulnerable	As Above
Methyl-tert-butyl ether (MTBE)	0.013	Vulnerable	As Above
Monochlorobenzene	0.07	Vulnerable	As Above
Styrene	0.1	Vulnerable	As Above
1,1,2,2-Tetrachloroethane	0.001	Vulnerable	As Above
Tetrachloroethylene	0.005	Vulnerable	As Above
Toluene	0.15	Vulnerable	As Above
1,2,4-Trichlorobenzene	0.005	Vulnerable	As Above
1,1,1-Trichloroethane	0.200	Vulnerable	As Above
1,1,2-Trichloroethane	0.005	Vulnerable	As Above
Trichlorofluoromethane	0.15	Vulnerable	As Above
1,1,2-Trichloro-1,2,2-trifluoroethane	1.2	Vulnerable	As Above
Trichloroethylene	0.005	Vulnerable	As Above
Vinyl Chloride	0.0005	Vulnerable	As Above
Xylenes	1.750	Vulnerable	As Above

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SYNTHETIC ORGANIC CHEMICALS (SOCs) Table 64444-A Part (b)	MCL (mg/L)	Vulnerability	Monitoring Frequency
Alachlor	0.002	Vulnerable	Two quarterly samples in one year during this period
Atrazine	0.001	Vulnerable	Two quarterly samples in one year during this period
Bentazon	0.018	Vulnerable	Two quarterly samples in one year during this period
Benzo (a) pyrene	0.0002	Non-Vulnerable	Waived
Carbofuran	0.018	Non-Vulnerable	Waived
Chlordane	0.0001	Non-Vulnerable	Waived
2,4-D	0.07	Vulnerable	Two quarterly samples in one year during this period
Dalapon	0.2	Non-Vulnerable	Waived
1,2-Dibromo-3-chloropropane (DBCP)	0.0002	Non-Vulnerable	Waived
Di (2-ethylhexyl) adipate	0.4	Non-Vulnerable	Waived
Di (2-ethylhexyl) phthalate (DEHP)	0.004	Vulnerable	Two quarterly samples in one year during this period
Dinoseb	0.007	Vulnerable	Two quarterly samples in one year during this period
Diquat	0.02	Vulnerable	Two quarterly samples in one year during this period
Endothall	0.1	Vulnerable	Two quarterly samples in one year during this period
Endrin	0.002	Non-Vulnerable	Waived
Ethylene Dibromide (EDB)	0.00005	Non-Vulnerable	Waived
Glyphosate	0.7	Vulnerable	Two quarterly samples in one year during this period
Heptachlor	0.00001	Non-Vulnerable	Waived
Heptachlor Epoxide	0.00001	Non-Vulnerable	Waived
Hexachlorobenzene	0.001	Non-Vulnerable	Waived
Hexachlorocyclopentadiene	0.05	Non-Vulnerable	Waived
Lindane	0.0002	Non-Vulnerable	Waived
Methoxychlor	0.03	Non-Vulnerable	Waived
Molinate	0.02	Non-Vulnerable	Waived
Oxamyl (Vydate)	0.05	Non-Vulnerable	Waived
Pentachlorophenol	0.001	Vulnerable	Two quarterly samples in one year during this period
Picloram	0.5	Non-Vulnerable	Waived
Polychlorinated Biphenyls (PCBs)	0.0005	Non-Vulnerable	Waived
Simazine	0.004	Vulnerable	Two quarterly samples in one year during this period
Thiobencarb	0.07	Refer to "Thiobencarb Table" ³	Vulnerable-Two quarterly samples in one year during this period Waived-No Samples required in this period
Toxaphene	0.003	Vulnerable	Two quarterly samples in one year during this period
2,3,7,8-TCDD (Dioxin)	3x10 ⁻⁸	Non-Vulnerable	Waived
2,4,5-TP (Silvex)	0.05	Non-Vulnerable	Waived

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APPENDIX 5

Treatment Facility Classification Worksheet

Treatment Classification

City of Inglewood - System 1910051

Treatment Facility: Sanford M. Anderson Water Treatment Plant (Wells 1, 2, 4, 6, and 7)

Date:

9/13/18

Section 64413.1 Classification of Water Treatment Facilities Table 64413.1-A Water Treatment Facility Class Designation

Total Points	Class	Designation
Less than 20	T1	
20 through 39	T2	X
40 through 59	T3	
60 through 79	. T4	
80 or more	T5	

Section 64413.1(b). The calculation of total points for each water treatment facility shall be the sum of the points derived in each of paragraphs (1) through (13) except where a treatment facility treats more than one source, in which case the source with the highest average of each contaminant shall be used to determine the point value in paragraphs (2) through (5).

Section 63750.85. "Water treatment facility" means a group or assemblage of structures, equipment, and processes that treat or condition a water supply, affecting the physical, chemical, or bacteriological quality of water distributed or otherwise offered to the public for domestic use by a public water system as defined in Health and Safety Code Section 116275. Facilities consisting of only disinfection for which no *Giardia* or virus reduction is required pursuant to Section 64654(a) and which are under the control of a certified distribution operator are not included as water treatment facilities.

INSTRUCTIONS: For each paragraph item that applies to the system, insert the appropriate number of points in the **Points Assigned** column. For paragraphs (1), (2), (3), (7), (8), (9), (12), and (13), assign **one value only** (whichever is highest) for each paragraph. For paragraphs (4), (5), (6), (10), and (11), assign **all point values** that apply for each paragraph. This spreadsheet will total the points and determine the system's classification.

Paragraph	Points Possible	Points Assigned
(1) Source Water Used by Facility		
Groundwater and/or purchased treated water meeting primary and secondary drinking water standards, as defined in Section 116275 of the HSC	d 2	2
Water that includes any surface water or groundwater under the direct influence of surface water	5	
(2) Influent Water Microbiological Quality, Median Coliform Density, Most Probable Number Index (MPN) (a)		N/A
Less than 1 per 100 mL	0	
1 through 100 per 100 mL	2	1
Greater than 100 through 1,000 per 100 mL	4	
Greater than 1,000 through 10,000 per 100 mL	6	-
Greater than 10,000 per 100 mL	- 8	.
(3) Influent Water Turbidity, Maximum Influent Turbidity Level, Nephelometric Turbidity Units (NTU) (b)		N/A
Less than 15	0	
15 through 100	2	1
Greater than 100	5	1
(4) Influent Water Perchlorate, Nitrate, and Nitrite; Perchlorate, Nitrate, and Nitrite Data Average (c)		
Less than or equal to the MCL	0	1
Greater than the MCL	5	- 0
(5) Influent Water Chemical and Radiological Contamination, Contaminant Data Average (d)		
Less than or equal to the MCL	0	
Greater than the MCL	2	1 o ···
5 times the MCL or greater	5	1

City of Inglewood - System 1910051

(6) Surface Water Filtration Treatment		N/A
Conventional, direct, or inline	15	
Diatomaceous earth	12]
Slow sand, membrane, cartridge, or bag filter	8	
Backwash recycled as part of process	5	
(7) The points for each treatment process utilized by the facility and not included in paragraph (6) that is used to reduce the concentration of one or more contaminants for which a primary MCL exists, pursuant to Table 64431-A, Table 64444-A, and Tables 64442 and 64443, shall be 10. Blending shall only be counted as a treatment process if one of the blended sources exceeds a primary MCL.	10	0
(8) The points for each treatment process not included in paragraphs (6) or (7) that is used to reduce the concentration of one or more contaminants for which a secondary MCL exists, pursuant to Tables 64449-A and 64449-B, shall be 3. Blending shall only be counted as a treatment process if one of the blended sources exceeds a secondary MCL.	3	. 3
(9) The points for each treatment process not included in paragraphs (6), (7), or (8) that is used for corrosion control or fluoridation shall be 3.	3	0
(10) Disinfection Treatment		N/A
Ozone	10	
Chlorine and/or chloramine	10	
Chlorine dioxide	10	1
Ultraviolet (UV)	7	
(11) Disinfection/Oxidation Treatment without Inactivation Credit		
Ozone	5	
Chlorine and/or chloramine	5	
Chlorine dioxide	5	5
Ultraviolet (UV)	3	
Other oxidants	5	
(12) The points for any other treatment process that alters the physical or chemical characteristics of the drinking water and that was not included in paragraphs (6), (7), (8), (9), (10), or (11) shall be 3.	3	0 _.
(13) The points for facility flow shall be 2 per million gallons per day or fraction thereof of maximum permitted treatment facility capacity, up to a maximum of 50 points; except that for facilities utilizing only blending, the points shall be based on the flow from the contaminated source and the dilution flow required to meet the MCL(s) specified in Tables 64431-A, 64444-A, 64449-A, 64449-B, 64442, and 64443.	50 max 8:64 MGD	17.3
	Total Points	27.3

Item #8 - treatment for manganese and iron

Item #13 - Capacity of Sanford TP is 8.64MGD

(a) Median of all total coliform analyses completed in the previous 24 months.

(b) For facilities treating surface water or groundwater under the direct influence of surface water, based on the previous 24 months of data, except that if turbidity data is missing for one or more of the months, the points given for turbidity shall be 5. The maximum influent turbidity sustained for at least one hour according to an on-line turbidimeter shall be used unless such data is not available, in which case, the maximum influent turbidity identified by grab sample shall be used. For facilities that have not been in operation for 24 months, the available data shall be used. For facilities whose permit specifies measures to ensure that influent turbidity will not exceed a specified level, the points corresponding to that level shall be assigned.

(c) The points for influent water perchlorate, nitrate, or nitrite levels shall be determined by an average of the three most recent sample results. The points assigned should be the sum of the points for each contaminant.

(d) The points for other influent water contaminants with primary MCLs shall be a sum of the points for each of the inorganic contaminants (Table 64431-A), organic contaminants (Table 64444-A) and radionuclides (Tables 64442 and 64443). The points for each contaminant shall be based on an average of the three most recent sample results. If monitoring for a contaminant has been waived pursuant to Sections 64432(k), 64432.2(c) or 64445(d), the points shall be zero for that contaminant.