REGULAR MEETING STARTS AT 6:00 PM
Mayor Dan Epperson
Vice Mayor Rodney Plamondon
Council Member Dominic Atlan
Council Member Stacy Rhoades
Council Member Diane Wratten

DUE TO THE GOVERNOR'S EXECUTIVE ORDER N-25-20, THE CITY OF IONE WILL BE CONDUCTING ITS MEETING IN PERSON AT 1 E. MAIN STREET, IONE, CA 95640 AND VIA ZOOM

City of Ione is inviting you to a scheduled Zoom meeting.
Join Zoom Meeting
https://zoom.us/j/2351961316?pwd=d3lWTW0zbVJLblpQNXBDQWtpZkRyUT09
Meeting ID: 235 196 1316
Passcode: 95640
One tap mobile
+16699006833,,2351961316#,,,,*95640# US (San Jose)
+12532158782,,2351961316#,,,,*95640# US (Tacoma)

Dial by your location
+1 669 900 6833 US (San Jose)
+1 253 215 8782 US (Tacoma)
+1 346 248 7799 US (Houston)
+1 929 205 6099 US (New York)
+1 301 715 8592 US (Washington DC)
+1 312 626 6799 US (Chicago)
Meeting ID: 235 196 1316
Passcode: 95640
Find your local number: https://zoom.us/u/aex3ZLbqgp

Tuesday, May 3, 2022
1 E. Main Street
Ione, CA 95640
THE CITY OF IONE IS A GENERAL LAW CITY DEDICATED TO PROVIDING LEADERSHIP, ACCOUNTABILITY, AND FISCAL INTEGRITY WHILE PROMOTING ECONOMIC OPPORTUNITIES AND MAINTAINING A HIGH QUALITY OF LIFE FOR OUR CITIZENS

PLEASE LIMIT PUBLIC COMMENT/TESTIMONY TO FOUR MINUTES
Gov't. Code §54954.3

The Ione City Council welcomes, appreciates, and encourages participation in the City Council Meeting. The City Council reserves the right to reasonably limit the total time for public comment on any particular noticed agenda item as it may deem necessary.
Full staff reports and associated documents are available for public review at the Office of the City Clerk, City Hall, 1 E. Main Street, Ione, CA. Hard copies may be obtained for $3.60 for pages 1-5 and $.45 for each additional page. Documents that are not available when the agenda is posted will be made available for public review at the meeting.

AGENDA

A. ROLL CALL

B. PLEDGE OF ALLEGIANCE

C. APPROVAL OF AGENDA

D. PRESENTATIONS/ANNOUNCEMENTS: None

E. PUBLIC COMMENT: **EACH SPEAKER IS LIMITED TO 4 MINUTES**

NOTE: This is the time for members of the public who wish to be heard on matters that do not appear on the Agenda. Persons may address the City Council at this time on any subject within the jurisdiction of the Ione City Council.

Please be mindful of the ***4 minute time limit per person****.Pursuant to the Brown Act, the City Council may not take action or engage in a detailed discussion on an item that does not appear on the Agenda. However, matters that* ***require Council action will be referred to staff for a report and/or recommendation for possible action at a future Council meeting. Is there anyone in the audience who wishes to address the Council at this time?***

F. CONSENT CALENDAR:

Notice to the Public: All matters listed under this category are considered to be routine and will be enacted by one motion. Any item may be removed for discussion and possible action and made a part of the regular agenda at the request of a Council Member(s).

1. Approval of City Council Minutes: April 5, 2022
2. Warrants, April 2022
3. Public Safety Quarterly Report – Acting Police Chief John Alfred, Police Department
4. Groundwater Monitoring Reports – 1st Quarter

G. PUBLIC HEARING: None

H. REGULAR AGENDA:

5. Add One Part Time Administrative Analyst and One Full Time Police Officer Trainee to Salary Schedule

I. REPORTS AND COMMUNICATIONS FROM CITY MANAGER

J. COUNCIL COMMENTS/COMMITTEE REPORTS/FUTURE AGENDA ITEMS

K. CLOSED SESSION:

- Conference with Legal Counsel – Anticipated Litigation: Significant Exposure to Litigation Pursuant to Paragraph (2) of Section 54956.9 of the Government Code Three (3) Cases
- Pursuant to Government Code Section 54956.8 with Real Property Negotiator: Property: APN 004-151-012

  Agendcy Negotiator: Michael Rock, Interim City Manager

  Negotiation Parties: Loreta Tillery and Helen Ninnis
- Pursuant to Government Code 54957 – Public Employee Performance Review – City Attorney
- Pursuant to Government Code 54957 – Public Employee Appointment: City Manager
- Surplus of City Property: Vacant Lot Sutter/Nuner – Castle View Drive
- Amador Superior Court Case No: 21-CV-12146 Conference with Legal Counsel – Existing Litigation Paragraph 1 of Subdivision d of Section 54956.9 – Bittick v. City of Ione

L. ADJOURNMENT

NOTICE REGARDING CHALLENGES TO DECISIONS

Pursuant to all applicable laws and regulations, including without limitation, California Government Code Section 65009 and or California Public Resources Code Section 21177, if you wish to challenge in court any of the above decisions (regarding planning, zoning and/or environmental decisions), you may be limited to raising only those issues you or someone else raised at the public hearing(s) described in this notice/agenda, or in written correspondence delivered to the City at, or prior to, this public hearing.

ADA COMPLIANCE STATEMENT

In compliance with the American with Disabilities Act, if you need special assistance to participate in this meeting, please contact City Clerk Janice Traverso at (209) 274-2412, ext. 102. Notification 24 hours prior to the meeting will enable the City to make reasonable arrangements to ensure accessibility to this meeting.

I, Janice Traverso, the City Clerk of the City of Ione declare under penalty of perjury that the foregoing agenda for the Tuesday, May 3, 2022 meeting of the Ione City Council was posted on April 30, 2022.

Janice Traverso

Janice Traverso, City Clerk

#1

CITY OF IONE COUNCIL MEETING MINUTES
Meeting of April 5, 2022

Mayor Epperson called meeting to order at 6:00 PM

A. ROLL CALL:

Present: Dan Epperson, Mayor
Rodney Plamondon, Vice Mayor (Zoom)
Dominic Atlan, Councilmember
Stacy Rhoades, Councilmember
Diane Wratten, Councilmember

Staff: Michael Rock, Interim City Manager
Sophia Meyer, City Attorney
Janice Traverso, City Clerk
Julie Millard, Management Analyst

B. PLEDGE OF ALLEGIANCE:

Mayor Epperson led the Pledge of Allegiance.

C. APPROVAL OF AGENDA:

It was moved by Councilmember Wratten, seconded by Councilmember Rhoades and carried to approve the agenda.
AYES: Epperson, Plamondon (Zoom), Atlan, Rhoades, Wratten
NOES: None
ABSENT: None
ABSTAIN: None

D. PRESENTATIONS/ANNOUNCEMENTS: None

E. PUBLIC COMMENT:

Larry Rhoades: Questioned two items on the Warrants, 2022 – Sandy Gulch Sign Company and Coastland Engineering—the items will be discussed under the Regular Agenda.

Robyn Ornsby: Thanked the Council for having the Caltrans sign "End of Road Work" removed from the Veteran's Park. The sign was removed but they did leave a hole in the Park one foot wide and 2 feet deep, which I thought was very disrespectful. The next day, the hole was filled in by me and Stacy Rhoades. There needs to be better communication with Caltrans. I would also like to discuss the possibility of adding an Infinity Flame to the Veteran's Park at a future meeting.

David Anderson: On March 23, 2022 I filed a PRA request to obtain a copy of Lori McGraw's Government Claim. On March 31, 2022 I received a response from Michelle Nasise, Assistant City Attorney denying my request. Her explanation was simply wrong--Prentice Long could not release the copy because of a duty to protect Lori McGraw's privacy and they needed to exert the attorney work product privilege to guard the information. Case Law and common sense says that Lori's attorney waived any privacy protection by filing a Government Claim, which is defined as a Public Record meant to inform the agency of a potential liability. I have received a copy of the Claim from Lori McGraw's attorney.

F. CONSENT CALENDAR:

Councilmember Atlan asked that Item #2 Warrants be pulled for discussion and placed under the Regular Agenda. It was moved by Councilmember Atlan, seconded by Councilmember Rhoades and carried to approve the following:

1. Approval of Minutes – March 1, 2022 and March 15, 2022
3. Treasurer's Reports – January, 2022 and February, 2022

AYES: Epperson, Plamondon (Zoom), Atlan, Rhoades, Wratten
NOES: None
ABSENT: None
ABSTAIN: None

G. PUBLIC HEARING: None

DISCUSSION ITEMS:

For the record: Action minutes provide the necessary documentation of City Council action. Audio recordings are retained for those desiring more detail on particular agenda item discussions. These audio recordings provide an accurate and comprehensive backup of City Council deliberations and citizen discussions.

H. REGULAR AGENDA:

2. Warrants, 2022
    - Sandy Gulch Sign Company, Castle Oaks parking lot lights – The fee charged to the City is paid through the Lighting and Landscaping Fund, which Castle Oaks is included and pays $4,000 into the fund every year.
    - Coastland Engineering – The fee charged to the City is actually a pass-through and billed to the developers and represented the last four months.

    It was moved by Councilmember Atlan, seconded by Councilmember Wratten and carried to approve the Warrants for March, 2022.
    AYES: Epperson, Plamondon (Zoom), Atlan, Rhoades, Wratten
    NOES: None
    ABSENT: None
    ABSTAIN: None

4. Mid-Year Budget Review – Mary Morris-Mayorga, Finance Consultant presented the Mid-Year Budget Revenues and Expenditures for Fiscal Year 2021-2020. Some revenues are a bit higher than anticipated and some expenditures lower which will provide an overall increase to unrestricted reserves. We are requesting a budget amendment for a new vehicle, which is well within the salary savings in the Building Inspection budget unit. We are recommending to transfer $30,207 from Account Code 1111-85-5110 (Salaries and Wages) to the Parks and Facilities Maintenance Budget Account Code 1111-92-8810 (Capital Expense Vehicles). It was moved by Councilmember Atlan, seconded by Councilmember Wratten and carried to approve the budget amendment to fund a new vehicle for the Building Inspector with salary savings and receive and file the Fiscal Year 2021-2022 Mid-Year Budget Review.

AYES: Epperson, Plamondon (Zoom), Atlan, Rhoades, Wratten
NOES: None
ABSENT: None
ABSTAIN: None

I. REPORTS AND COMMUNICATIONS FROM CITY MANAGER: None

J. COUNCIL COMMENTS/COMMITTEE REPORTS/FUTURE AGENDA ITEMS:

- Councilmember Atlan to attend ACTC meeting to request:
  - Better communication from Caltrans
  - Speed signs coming into town on Highways 104 and 124 are blocked by the speed limit signs and need to be moved to be more visible

- Councilmember Rhoades:
  - Attended Amador County Groundwater Management Meeting as an Advisory Member– the City is not a member but should be because Ione could possibly have the largest amount of wells because of the mines in the area.

K. CLOSED SESSION: Council convened to Closed Session to discuss the following:

- Amador Superior Court Case No: 21-CV-12146 Conference with Legal Counsel – Existing Litigation Paragraph 1 of Subdivision (d) of Section 54956.9 – Bittick v. City of Ione
- Pursuant to Government Code 54957 – Public Employee Performance Review – Interim City Manager
- Pursuant to Government Code 54957.9 – Public Employee Appointment: City Manager
- Conference with Legal Counsel – Anticipated Litigation: Significant Exposure to Litigation Pursuant to Paragraph (2) of Section 54956.9 of the Government Code - Two (2) Cases

L. DISPOSITION OF CLOSED SESSION ITEMS:

- Amador Superior Court Case No: 21-CV-12146 Conference with Legal Counsel – Existing Litigation Paragraph 1 of Subdivision (d) of Section 54956.9 – Bittick v. City of Ione – **Councilmembers Rhoades and Atlan recused themselves. Information was received.**
- Pursuant to Government Code 54957 – Public Employee performance Review – Interim City Manager – **Evaluation was held.**
- Pursuant to Government Code 54957.9 – Public Employee Appointment: City Manager – **Information received and direction given to staff.**
- Conference with Legal Counsel – Anticipated Litigation: Significant Exposure to Litigation Pursuant to Paragraph (2) of Section 54956.9 of the Government Code - Two (2) Cases:
  - **A - Information received and direction given to staff.**
  - **B- Information received and direction given to staff. Councilmember Rhoades recused himself.**

M. ADJOURNMENT:

It was moved by Councilmember Atlan, seconded by Councilmember Wratten and carried to adjourn.

Respectfully submitted,

Janice Traverso, City Clerk

#2

Report Criteria:
Report type: GL detail
Check.Type = {<>} "Adjustment"

Check Num	Check Issue Date	Vendor ID	Payee / Description	Amount
2867	04/14/2022	4520	**AMADOR MECHANICAL, INC.**	10,000.00
			WILDFLOWER HAZARD ABATEMENT	
2868	04/18/2022	30	**ACES**	282.49
			HOWARD PK BIN-04/22	
2869	04/18/2022	70	**AFLAC**	63.70
			MO. EMPLOYEE INS. CONT. 03/22	
2871	04/18/2022	265	**AMADOR COUNTY SHERIFF'S DEPT**	520.35
			MO. RIMS ACCESS FEE 03/22	
2871	04/18/2022	265	**AMADOR COUNTY SHERIFF'S DEPT**	35,822.12
			DISPATCH SERV 3RD QTR FY 21-22	
2872	04/18/2022	315	**AMADOR WATER AGENCY**	30.00
			005018-020-HYDRANT METER	
2872	04/18/2022	315	**AMADOR WATER AGENCY**	2,364.88
			005018-001-RAW WATER HOWARD PK	
2872	04/18/2022	315	**AMADOR WATER AGENCY**	654.84
			005018-017-POPLAR ST	
2872	04/18/2022	315	**AMADOR WATER AGENCY**	112.10
			005018-018-FIRE STATION #2	
2872	04/18/2022	315	**AMADOR WATER AGENCY**	350.52
			005018-011-HOWARD PK	
2872	04/18/2022	315	**AMADOR WATER AGENCY**	100.29
			005018-012-1600 W MARLETTE	
2872	04/18/2022	315	**AMADOR WATER AGENCY**	57.19
			005018-013-MAIN & SACRAMENTO	
2872	04/18/2022	315	**AMADOR WATER AGENCY**	57.19
			005018-014-MARLETTE & MILL ST	
2872	04/18/2022	315	**AMADOR WATER AGENCY**	60.42
			005018-015-FIVE MILE DR	
2872	04/18/2022	315	**AMADOR WATER AGENCY**	415.12
			005018-016-HOWARD PK	
2872	04/18/2022	315	**AMADOR WATER AGENCY**	163.78
			005018-008-437 QUAILHOLLOW DR	
2872	04/18/2022	315	**AMADOR WATER AGENCY**	163.78
			005018-009-431 QUAILHOLLOW DR	
2872	04/18/2022	315	**AMADOR WATER AGENCY**	141.17
			005018-010-PERRY EARL PARK	
2872	04/18/2022	315	**AMADOR WATER AGENCY**	67.19
			006157-000-SEWER LIFT STATION	
2872	04/18/2022	315	**AMADOR WATER AGENCY**	189.72
			005018-003-CITY HALL	
2872	04/18/2022	315	**AMADOR WATER AGENCY**	70.11
			005018-004-39 MAIN & PRESTON	
2872	04/18/2022	315	**AMADOR WATER AGENCY**	60.42
			005018-002-FIRE STATION #1	
2872	04/18/2022	315	**AMADOR WATER AGENCY**	67.19
			005018-024-17 E MAIN ST	
2872	04/18/2022	315	**AMADOR WATER AGENCY**	92.72
			005018-006-846 SUTTER LN	
2872	04/18/2022	315	**AMADOR WATER AGENCY**	128.35
			005018-007-CASTLEOAKS ENTRANCE	
2872	04/18/2022	315	**AMADOR WATER AGENCY**	63.65
			006352-000-CASTLEOAKS MEDIAN 1	
2872	04/18/2022	315	**AMADOR WATER AGENCY**	57.19
			006352-001-CASTLEOAKS MEADIAN 3	
2872	04/18/2022	315	**AMADOR WATER AGENCY**	57.19
			006352-002-CASTLEOAKS MEDIAN 2	

M = Manual Check, V = Void Check

Check Num	Check Issue Date	Vendor ID	Payee / Description	Amount
2872	04/18/2022	315	**AMADOR WATER AGENCY** *005018-005-OAKRIDGE DRIVE*	389.07
2873	04/18/2022	420	**AT&T CALNET 3** *MO. PHONE SERV. BAN:9391064373 03/22*	225.15
2873	04/18/2022	420	**AT&T CALNET 3** *MO. PHONE SERV. BAN:9391033961 03/22*	765.64
2873	04/18/2022	420	**AT&T CALNET 3** *MO. PHONE SERV. BAN:9391037281 03/22*	22.56
2873	04/18/2022	420	**AT&T CALNET 3** *MO. PHONE SERV. BAN:9391037282 03/22*	64.32
2874	04/18/2022	425	**ATT MOBILITY** *FD FIRSTNET - 04/22*	176.20
2874	04/18/2022	425	**ATT MOBILITY** *ACCT 287312741394 - PD FIRSTNET 03/22*	996.65
2874	04/18/2022	425	**ATT MOBILITY** *ACCT 287312741394 - PD FIRSTNET 04/22*	420.21
2875	04/18/2022	535	**BEELER TRACTOR COMPANY** *LAWNMOWER 928D SHIELD, BUSHING, CARRIAGE*	201.70
2875	04/18/2022	535	**BEELER TRACTOR COMPANY** *N20312 GRASSHOPPER 3572R MOWER DECK - SALES TAX*	360.14
2876	04/18/2022	540	**BENEFIT COORDINATORS CORPORATION** *LIFE INSURANCE & AD&D BENEFITS-MAR 2022*	94.32
2876	04/18/2022	540	**BENEFIT COORDINATORS CORPORATION** *LIFE INSURANCE & AD&D BENEFITS- MAR 2022*	173.32
2876	04/18/2022	540	**BENEFIT COORDINATORS CORPORATION** *LIFE INSURANCE & AD&D BENEFITS-MAR 2022*	93.31
2877	04/18/2022	895	**CASCADE FIRE EQUIPMENT CO** *RIVERSIDE HOSE PACK*	165.62
2878	04/18/2022	905	**CASELLE INC.** *CONTRACT SUPPORT/MAINT - APR 2022*	1,651.00
2878	04/18/2022	905	**CASELLE INC.** *CONTRACT SUPPORT/MAINT - MAY 2022*	1,726.00
2879	04/18/2022	1200	**DAVID TAUSSIG & ASSOC. INC** *PROJECT D21-80266.000 IONE/ CFD 2005-2 IA 1 FY 21-22*	855.00
2879	04/18/2022	1200	**DAVID TAUSSIG & ASSOC. INC** *PROJECT D21-80266.OS IONE/ CFD 2005-2 IA 1PREPAYMENT*	1,092.50
2879	04/18/2022	1200	**DAVID TAUSSIG & ASSOC. INC** *PROJECT D21-80267.000 IONE/ CFD 2005-2 IA 2 FY 21-22*	237.50
2879	04/18/2022	1200	**DAVID TAUSSIG & ASSOC. INC** *PROJECT D21-80268.OS IONE/ CFD 2005-2 IA 3 PREPAYMENT*	1,140.00
2879	04/18/2022	1200	**DAVID TAUSSIG & ASSOC. INC** *PROJECT D21-80269.000 IONE/ CFD 2006-1 1 FY 21-22*	165.30
2879	04/18/2022	1200	**DAVID TAUSSIG & ASSOC. INC** *PROJECT D21-80270.000 IONE/ CFD 2009-3 1 FY 21-22*	167.20
2879	04/18/2022	1200	**DAVID TAUSSIG & ASSOC. INC** *PROJECT D21-80266.000 IONE/ CFD 2005-2 IA 1 FY 21-22*	712.50
2879	04/18/2022	1200	**DAVID TAUSSIG & ASSOC. INC** *PROJECT D21-80266.OS IONE/ CFD 2005-2 IA 1PREPAYMENT*	142.50
2879	04/18/2022	1200	**DAVID TAUSSIG & ASSOC. INC** *PROJECT D21-80268.000 IONE/ CFD 2005-2 IA 3 FY 21-22*	212.80
2879	04/18/2022	1200	**DAVID TAUSSIG & ASSOC. INC** *PROJECT D21-80268.OS IONE/ CFD 2005-2 IA 3 PREPAYMENT*	1,282.50
2879	04/18/2022	1200	**DAVID TAUSSIG & ASSOC. INC** *PROJECT D21-80269.000 IONE/ CFD 2006-1 1 FY 21-22*	24.70
2879	04/18/2022	1200	**DAVID TAUSSIG & ASSOC. INC** *PROJECT D21-80270.000 IONE/ CFD 2009-3 1 FY 21-22*	22.80
2880	04/18/2022	1225	**DE NOVO PLANNING GROUP INC.** *PLANNING SERVICES DEC 2021*	12,532.50

M = Manual Check, V = Void Check

Check Num	Check Issue Date	Vendor ID	Payee / Description	Amount
2880	04/18/2022	1225	**DE NOVO PLANNING GROUP INC.** *PLANNING SERVICES JAN 2022*	13,767.83
2880	04/18/2022	1225	**DE NOVO PLANNING GROUP INC.** *PLANNING SERVICES FEB 2022*	8,252.91
2881	04/18/2022	1310	**DIVISION OF THE STATE ARCHITECT** *DISABILITY ACCES & EDUC FEE'S 2013 - MAR. 2022*	2,538.50
2882	04/18/2022	1355	**EASTON'S SERVICE AND REPAIR** *GRASSHOPPER 729G2 OIL, AIR, FUEL FILTER CHANGE*	301.92
2882	04/18/2022	1355	**EASTON'S SERVICE AND REPAIR** *GRASSHOPPER 928D MAINTENANCE AND REPAIR*	2,457.58
2883	04/18/2022	1375	**ECO URBAN DESIGNS INC.** *CONSULT SERV. WWTF 04/22*	1,322.00
2883	04/18/2022	1375	**ECO URBAN DESIGNS INC.** *CONSULT/TESTING TERTIARY 04/22*	1,322.00
2883	04/18/2022	1375	**ECO URBAN DESIGNS INC.** *LANDSCAPE MAINT-CO GOLF COURSE 04/22*	2,542.00
2885	04/18/2022	1500	**FERGUSON ENT INC. #686** *1-1/2 SPUD ESC - EB HALL*	48.03
2886	04/18/2022	1570	**FOLKMAN JANITORIAL** *EB HALL JANITORIAL SERVICE- MAR 22*	165.00
2887	04/18/2022	2005	**IONE ACE HARDWARE** *CITY HALL - HDMI CABLE, COUPLERS COUNCIL CHAMBERS*	114.82
2887	04/18/2022	2005	**IONE ACE HARDWARE** *FIRE - SMOKE ALARM, BATTERIES*	33.39
2887	04/18/2022	2005	**IONE ACE HARDWARE** *CARNAUBA PASTE WAX 12OZ*	7.54
2887	04/18/2022	2005	**IONE ACE HARDWARE** *FIRE - ULTIMATE BLK RESTOR 12OZ*	10.77
2887	04/18/2022	2005	**IONE ACE HARDWARE** *FIRE - GRADE STAKE, FILM POLY*	119.51
2887	04/18/2022	2005	**IONE ACE HARDWARE** *FIRE - BATTERIES*	15.08
2887	04/18/2022	2005	**IONE ACE HARDWARE** *FIRE - KEY MASTER M1 ACE*	5.59
2887	04/18/2022	2005	**IONE ACE HARDWARE** *FIRE - RAINX WB WIPER BLADE 22"*	10.77
2887	04/18/2022	2005	**IONE ACE HARDWARE** *FIRE - WD40, FASTENERS*	7.26
2887	04/18/2022	2005	**IONE ACE HARDWARE** *FIRE - LED A19 E26 BW 75W 2PK*	14.00
2887	04/18/2022	2005	**IONE ACE HARDWARE** *FIRE - KEY KWIKSET, KEY SCHALGE*	5.59
2887	04/18/2022	2005	**IONE ACE HARDWARE** *FIRE - DUCT SUPUR-FLX, ELBOW ADJUSTABLE*	24.97
2887	04/18/2022	2005	**IONE ACE HARDWARE** *FIRE - PROPANE 4.5 GALLON*	17.42
2887	04/18/2022	2005	**IONE ACE HARDWARE** *FIRE - SPRAY PAINT*	9.26
2887	04/18/2022	2005	**IONE ACE HARDWARE** *FIRE - EARPLUG*	25.43
2887	04/18/2022	2005	**IONE ACE HARDWARE** *FIRE - STRAP BULK X 2*	107.75
2887	04/18/2022	2005	**IONE ACE HARDWARE** *FIRE - TOILET SEAT*	19.39
2887	04/18/2022	2005	**IONE ACE HARDWARE** *PUBLIC WORKS - EB HALL - SCOUR PAD, SCRUB BRUSH, CLEANER*	31.86
2887	04/18/2022	2005	**IONE ACE HARDWARE** *PUBLIC WORKS - EB HALL - TAPE MASK*	22.60
2887	04/18/2022	2005	**IONE ACE HARDWARE** *PUBLIC WORKS - ACE BETTER BRUSH, DISPOSABLE PAINT*	89.59

M = Manual Check, V = Void Check

Check Num	Check Issue Date	Vendor ID	Payee / Description	Amount
			TRAY	
2887	04/18/2022	2005	**IONE ACE HARDWARE**	32.31
			PUBLIC WORKS - GLOVE CUT RESIST GRY, BOARD COMMON	
2887	04/18/2022	2005	**IONE ACE HARDWARE**	35.55
			PUBLIC WORKS - RYL P&F SW GRY 1 GAL	
2887	04/18/2022	2005	**IONE ACE HARDWARE**	6.46
			PUBLIC WORKS - WOOD FURRING STRIP	
2887	04/18/2022	2005	**IONE ACE HARDWARE**	20.01
			PUBLIC WORKS - 3 BAGS 60# MORTAR TYPE N	
2887	04/18/2022	2005	**IONE ACE HARDWARE**	73.21
			PUBLIC WORKS - AIR FILTER, SPRAY PAINT	
2887	04/18/2022	2005	**IONE ACE HARDWARE**	19.37
			PUBLCI WORKS - SPRAYPAINT	
2887	04/18/2022	2005	**IONE ACE HARDWARE**	6.46
			PUBLIC WORKS - SPRAYPAINT - EB HALL	
2887	04/18/2022	2005	**IONE ACE HARDWARE**	19.80
			PUBLIC WORKS - MEDRHOSE, CLAMP HOSE, FASTENERS	
2887	04/18/2022	2005	**IONE ACE HARDWARE**	132.67
			PUBLIC WORKS - REPAIR COUPLING, COUPLE SCH40 PVC, CEMENT	
2887	04/18/2022	2005	**IONE ACE HARDWARE**	5.59
			PUBLIC WORKS - KEY KWIKSET	
2887	04/18/2022	2005	**IONE ACE HARDWARE**	6.81
			PUBLIC WORKS - FASTENERS	
2887	04/18/2022	2005	**IONE ACE HARDWARE**	12.92
			PUBLIC WORKS - CLEANR ELECTRONIC	
2887	04/18/2022	2005	**IONE ACE HARDWARE**	16.73
			PUBLIC WORKS - FASTENERS, MR CLEAN SOAP, ERASERS, KEY	
2887	04/18/2022	2005	**IONE ACE HARDWARE**	2.80
			PUBLIC WORKS - KEY BLANK HOUSE	
2887	04/18/2022	2005	**IONE ACE HARDWARE**	2.80
			PUBLIC WORKS - KEY MASTER M1	
2887	04/18/2022	2005	**IONE ACE HARDWARE**	43.07
			PUBLIC WORKS - BOARD COMMON, DIP GLOVE	
2887	04/18/2022	2005	**IONE ACE HARDWARE**	7.31
			PUBLIC WORKS - GLASS CLEANER FRESH 19OZ	
2887	04/18/2022	2005	**IONE ACE HARDWARE**	72.14
			PUBLIC WORKS - BUNGEE CORD, SPRAYER, BROOM ANGLE	
2887	04/18/2022	2005	**IONE ACE HARDWARE**	210.07
			PUBLIC WORKS - KNEE PAD, DW CIRC BLD, CIRCULAR SAW	
2887	04/18/2022	2005	**IONE ACE HARDWARE**	282.95
			PUBLIC WORKS - BATTERIES, MR CLEAN ERASER,	
2887	04/18/2022	2005	**IONE ACE HARDWARE**	16.58
			WASTE WATER - TIE WIRE BLK, NO TRESPASSING SIGN	
2887	04/18/2022	2005	**IONE ACE HARDWARE**	4.31-
			FIRE - RETURN GAS SPOUT REPL NOZZLE	
2888	04/18/2022	2040	**IONE PHARMACY**	12.92
			TRUE METRIX GLUCOSE TEST (MEDICAL RESTOCK)	
2889	04/18/2022	2050	**IONE PLAZA MARKET**	28.00
			REFRESHMENTS FOR VOLUNTEERS	
2892	04/18/2022	2305	**LEAGUE OF CALIFORNIA CITIES**	25.00
			SAC VALLEY DIVISION MEETING	
2893	04/18/2022	2375	**LIFE- ASSIST INC**	474.10
			SUPRENO SE NITRILE EXAM GLOVES	
2896	04/18/2022	2635	**MISSION IT SOLUTIONS INC.**	262.00
			10-OFFICE 365 BUS. APP	
2897	04/18/2022	2910	**PERC WATER INC.**	2,041.97
			COLLECTION SYSTEM 03/22	

M = Manual Check, V = Void Check

Check Num	Check Issue Date	Vendor ID	Payee / Description	Amount
2897	04/18/2022	2910	**PERC WATER INC.** *CONTRACT WWTF OPERATIONS 03/22*	18,319.40
2897	04/18/2022	2910	**PERC WATER INC.** *TERTIARY OPERATIONS 03/22*	13,675.36
2900	04/18/2022	3570	**STAPLES BUSINESS CREDIT** *CITY HALL - MOUSE, STAPLER, INCLINE SORTER*	72.21
2901	04/18/2022	3810	**TOMMY'S GARAGE** *07 FORD F150 VIN 14102 - REPLACE TEMP BLEED DOOR ACTUATOR STUCK*	248.14
2901	04/18/2022	3810	**TOMMY'S GARAGE** *PATCH TIRE BUILDING VEHICLE 2021 FORD ESCAPE*	20.00
2903	04/18/2022	4000	**VOLCANO TELEPHONE COMPANY** *ACCT 63376 04/22*	74.90
2903	04/18/2022	4000	**VOLCANO TELEPHONE COMPANY** *ACCT 94906 04/22*	139.95
2903	04/18/2022	4000	**VOLCANO TELEPHONE COMPANY** *ACCT 100054 04/22*	69.95
2903	04/18/2022	4000	**VOLCANO TELEPHONE COMPANY** *ACCT 63360 04/22*	218.37
2870	04/18/2022	110	**ALFRED, JON** *COUNCIL REFRESHMENT REIMBURSMENT*	57.90
2884	04/18/2022	1405	**ELLISON SCHNEIDER HARRIS & DONLAN LLP** *IONE ENERGY ESHD #2097 BALANCE*	884.00
2899	04/18/2022	2996	**PRENTICE LONG PC** *LEGAL SERVICES, COMPLAINT DISCUSSION*	1,100.00
2899	04/18/2022	2996	**PRENTICE LONG PC** *LEGAL SERVICES-APR*	7,395.29
2899	04/18/2022	2996	**PRENTICE LONG PC** *LEGAL SERVICES-MAR*	7,772.94
2891	04/18/2022	2071	**IW SOLAR LLC** *SOLAR PRODUCED- TERTIARY PLANT MAR 22*	4,575.45
2891	04/18/2022	2071	**IW SOLAR LLC** *SOLAR PRODUCED-WWTP MAR 22*	4,575.45
2902	04/18/2022	3817	**TOUCH FREE EXPRESS CAR WASH** *POLICE VEHICLE CAR WASH*	200.00
2894	04/18/2022	4330	**MARY A. MORRIS-MAYORGA** *AUDIT ASSISTANCE 01/01 - 01/31*	4,647.50
2894	04/18/2022	4330	**MARY A. MORRIS-MAYORGA** *AUDIT ASSISTANCE 02/01 - 02/28*	8,772.50
2894	04/18/2022	4330	**MARY A. MORRIS-MAYORGA** *AUDIT ASSISTANCE 03/01 - 03/31*	4,207.50
2895	04/18/2022	4530	**MCCLATCHY COMPANY LLC** *PUBLIC NOTICE - ORGANIC WASTE ORDINANCES*	902.63
2890	04/18/2022	4685	**IONE TRADING POST** *PUBLIC WORKS - FUEL*	1,591.39
2890	04/18/2022	4685	**IONE TRADING POST** *FIRE - FUEL*	1,555.06
2898	04/18/2022	4725	**PIER & SON PAINTING** *EXTERIOR PAINTING EB HALL*	8,250.00
211812	04/18/2022	4775	**JOSIAH MATCHALS** *CLAIM FOR DAMAGES SETLLEMENT*	4,350.00
2905	04/20/2022	1890	**HERFEL, HUGH** *IONE TRAIN DEPOT PAVILION ROOFING*	15,190.68
Grand Totals:				224,468.90

M = Manual Check, V = Void Check

#3

Agenda Item

DATE: May 3, 2022

TO: Mayor Epperson and City Council

FROM: Michael Rock, Interim City Manager
Julie Millard, Management Analyst
Jon Alfred, Acting Police Chief

SUBJECT: Receive and File Ione Police Department 1st Quarter Report for 2022

RECOMMENDED ACTION:

1. Receive and file Ione Police Department January 1 – March 31, 2022 1st Quarter Report.

FISCAL IMPACT:

There is no fiscal impact associated with this item.

BACKGROUND:

This quarterly report is for the months of January through March 2022. This report is designed to give you an understanding of the day to day operations of the Ione Police Department (Department) and staff for the first quarter of 2022.

We would like to point out that the Department would not be able to perform at the level and capacity it does without its volunteers. They are central to the Department's success and the backbone to the safety our of City.

ATTACHMENTS:

Detailed Summary – 2022 1st Quarter Report

CITY OF IONE
POLICE DEPARTMENT
2022
1ST Quarter Report to City Council

Data is from January 1st to March 31st

1. Calls for service

2021	340
2022	371

2. Patrol Statistics

Officer Initiated Incidents	962
Traffic Stops	391
Other OIA Incidents	571
Business/Building Checks	389
Vehicle/Pedestrian Checks	46

Total Officer Reports	93
Accident Case	5
Corner's Case	2
Felony	17
General Information	31
Infraction	1
Misdemeanor	36
Unclassified	1

Total Misdemeanor & Felony Arrests	29
Misdemeanor Arrests	22
Adult	22
Juvenile	0
Felony Arrests	7
Adult	7
Juvenile	0

Citations	48
Felony	4
Misdemeanor	11
Vehicle Moving	31
Vehicle Parked	1
Unclassified	1

3. Staffing Levels
    - 1 Acting Chief
    - 1 Sergeant
    - 4 Police Officers
    - 1 Reserve Police Officer

    We are currently recruiting for an open Police Officer Position and are in the process of hiring an additional Reserve Police Officer.

    We currently run 12-hour shifts (Day Shift 6 AM – 6 PM, Graveyard 6 PM – 6 AM) with each Police Officer assigned to a shift. The Sergeant works the swing shift and covers day and graveyard shifts when necessary. The Acting Chief works Monday -Friday 8 AM to 4 PM and covers shifts as needed.

4. Grant Activity
    - Cannabis Tax Grant – We are starting the last quarter of the grant and have received reimbursement from CHP for the City of Ione expenses and overtime ($25,703.84).
    - Air Quality Board Grant –Retired Chief Arnold ordered a new police unit funded by the grant on January 14th. We are currently waiting on an update on the build and delivery of the new vehicle.

5. Volunteer Unit
    - The success of Retired Chief Arnold's Citizen's Academy has increased our Volunteer staffing levels. The new volunteers will begin more patrol functions starting this quarter, including vacation house checks, tagging illegally parked vehicles, neighborhood patrols, parade details, special events (Homecoming), and other similar duties.
    - This program will enhance the presence of the Police Department and improve the safety of our community. We continue to have a group of volunteers who assist with records and administrative duties in the Police Department. Without our volunteers, the Police Department would not be able to function at the level it does.
6. Training
    - 3 FTO's received state mandated update training (32hrs).
    - 1 Officer was sent to the Institute of Criminal Investigation Domestic Violence investigator course (40hrs).
    - 2 Officers attended state mandated advanced officer training at CAL Fire (40hrs).
    - Sgt. Sgroi attended the POST Background Investigator Course (32hrs).
7. Peace Officer Standards and Training Audit
    - POST completed the Ione Police Departments annual audit with no corrections or errors found.

IONE POLICE DEPARTMENT

PATROL STATISTICS

REPORTING PERIOD: 01/01/2022 - 03/31/2022

04/17/2022

Statistic	Count
Total Incidents	1333
Calls for Service	371
Officer Initiated Incidents	962
Traffic Stops	391
Other OIA Incidents	571
Bus/Building checks	389
Veh/Ped Check	46
Total Officer Reports	93
Accident Case	5
Coroner's Accident	0
Coroner's Case	2
Criminal Accident Report	0
Dog Bite	0
Felony	17
General Information Case	31
Infraction	1
Misdemeanor	36
Unclassified Reports	1
Total Misdemeanor & Felony Arrests	29
Misdemeanor Arrests	22
Adult	22
Juvenile	0
Felony Arrests	7
Adult	7
Juvenile	0
Citations	48
FELONY	4
MISDEMEANOR	11
Vehicle - Moving	31
Vehicle - Parked	1
Unclassified	1
FIs	0

#4

Monitoring Report Submittal Transmittal Form

Attn: Kenny Croyle (916) 464-4676
Central Valley Regional Water Quality Control Board
11020 Sun Center Drive #200
Rancho Cordova, CA 95670-6114

Discharger:	Amador Regional Sanitation Authority/City of Ione
Name of Facility:	Amador County Regional Outfall
WDRs Order Number:	R5-1993-0240
WDID:	5B030109001
County:	Amador

I am hereby submitting to the Central Valley Water Board the following information:

Check and/or circle all that apply:

Monthly Monitoring Report for the **month and year** of _____

1st / 2nd / 3rd / 4th/ Annual (**circle one**) Quarterly Monitoring Report for the year of **2022**

1st / 2nd (**circle one**) Semi-annual Monitoring Report for the year _____

Violation Notification

During the monitoring period, there were were not (circle one) any violations of the WDRs.

1. The violations were:

2. Have the violations been corrected? Yes / No. If no, what will be done to correct the violations:

Certification Statement

"I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment."

Signature: _____ Phone: (209) 273-7712

Printed Name: Michael Rock Date: 4-20-22

GROUNDWATER MONITORING REPORT
FIRST QUARTER 2022

THE CITY OF IONE
CASTLE OAKS GOLF COURSE
IONE, CA 95640

Submitted on

April 22, 2021

Prepared for

THE CITY OF IONE
1 EAST MAIN STREET
IONE, CA 95640

Prepared by

EcoUrban Associates
PO Box 411
Ione, CA 95640

TABLE OF CONTENTS

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3.0 MONITORING AND REPORTING REQUIREMENTS . . . . . - 2 -

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8.0 RECOMMENDATIONS . . . . . - 6 -

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Figure 2 Site Map Showing Well Locations
Figure 3 Groundwater Gradient Map
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Figure 6 Nitrates (as Nitrogen) in Groundwater
Figure 7 Ammonia (as Nitrogen) in Groundwater
Figure 8 Total Dissolved Solids in Groundwater
Figure 9 Total and Dissolved Arsenic in Groundwater
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Table 1 Historical Groundwater Data

ATTACHMENTS

Attachment 1 Field Sheets and Calibration Records

Attachment 2 Laboratory Analytical Reports

QUARTERLY MONITORING REPORT
FIRST QUARTER 2022
Order No. 5-00-182
CITY OF IONE
1 E. MAIN ST.
IONE, CA 95640

1.0 INTRODUCTION

This groundwater monitoring report describes the results of the Third Quarter 2021 Groundwater Monitoring event conducted at the Castle Oaks Golf Course (COGC) in Ione, CA on March 14th and 15th, 2022. This Report has been prepared to satisfy reporting requirements in the Revised Monitoring and Reporting Program (MRP) No. 93-240 dated April 17, 2001. The MRP was developed to monitor compliance with Water Reclamation Requirements (WRR) Order No. 93-240. The WRR prohibits the degradation of any water supply resulting from the discharge of tertiary water at the COGC. This Report has been submitted to the City of Ione (City) for review and comment and is submitted by EcoUrban Associates (EUA) to the California Regional Water Quality Control Board, Central Valley Region (Regional Board) on the City's behalf.

2.0 SITE DESCRIPTION

The COGC is located in Ione Valley approximately one mile northwest of Ione. The Mule Creek State Prison Wastewater Treatment Plant and disposal spray fields are located upgradient (northeast) from the site and the City Tertiary Treatment Plant (Treatment Plant) is located downgradient (southwest) of the COGC. A Vicinity Map is shown on **Figure 1**. The Treatment Plant water is treated to Title 22 standards and pumped to storage ponds on the COGC for seasonal irrigation. Mule Creek flows through the site from north to south, then east to west. Sutter Creek forms the south boundary of the COGC.

The COGC topography slopes toward the southwest and elevations range from 260 to 300 feet above mean sea level. Three groundwater wells at the COGC monitor for impacts to the beneficial uses of the groundwater. Well CO MW-1 is located in the upgradient area (northeast) and CO MW-2 and CO MW-3 are located in the downgradient area (southwest). In addition to the monitoring wells, depth-to-water measurements are collected from piezometers CO P-1, CO P-2, and CO P-4 located west of the Treatment Plant and from wells and piezometers at the City Wastewater Treatment Plant (WWTP) south of Sutter Creek. A map showing the well locations in provided as **Figure 2**. COGC

groundwater elevation data are combined with data from the WWTP and displayed on the Potentiometric Surface Map on **Figure 3**.

EUA personnel performed groundwater monitoring and sampling in COGC. The samples were delivered to Pace Analytical. within the required holding times following chain-of-custody procedures. Field forms are provided in **Attachment A** and laboratory analytical results are in **Attachment B**.

3.0 MONITORING AND REPORTING REQUIREMENTS

The Revised MRP No. 93-240 specifies quarterly monitoring for groundwater elevations, total coliform organisms (TCO), nitrate as nitrogen (nitrate-N), ammonia as nitrogen (ammonia-N), total dissolved solids (TDS), and pH. In addition, the City monitors for dissolved oxygen (DO), oxidation reduction potential (ORP), and electrical conductivity (EC) measurements are collected at the time of sampling.

Monitoring and sampling were performed by EUA personnel trained in the operation of field-testing instruments. The field technician training includes instrument calibration in compliance with the manufacturer's recommended procedures and frequencies. Instrument calibration records are included on the field observation sheets in **Attachment A**.

4.0 FIELD OBSERVATIONS

On March 14th and 15th, 2022, quarterly monitoring was performed and included the collection of a depth-to-water measurements from wells using an electrical sounding tape decontaminated between uses. EUA used dedicated bailers that have been kept uncontaminated within the well casing. All wells were purged of at least three casing volumes of water using dedicated disposable bailers. Field parameters were recorded during purging using appropriate and pre-calibrated meter. Purge rates ranged from approximately 1 to 2 gallons per minute (gpm). All wells recovered immediately to at least 80 percent of the pre-purge depth to water before sampling.

No sheens or odors were observed during purging. The purge water from all three wells had slight to moderate levels of turbidity. Field parameters appeared stable at the time of sampling. Field observation sheets are in **Attachment A**. Field data results are summarized in **Table 1 and Table 2.**

Table 1 - Groundwater Elevation Data

Location ID	Measuring Point Elevation (ft)	Depth to Groundwater (ft)	Groundwater Elevation (ft)	Well Screen Elevation (ft)
CO MW-1	280.28	10.92	269.36	263 to 273
CO MW-2	272.01	12.27	259.74	249 to 264
CO MW-3	264.86	10.05	254.81	235 to 253

Table 2 - Groundwater Chemistry Data

Monitoring Well	Temperature *(°C)*	pH *(SU)*	Electric Conductivity *(µmhos/cm)*	Dissolved Oxygen *(mg/L)*	Oxidation Reduction Potential *(mV)*	Field TDS *(mg/L)*
CO MW-1	17.6	6.44	377	4.01	177	273
CO MW-2	15.3	5.72	800	1.87	216	582
CO MW-3	17.2	6.47	524	1.59	211	390

5.0 LABORATORY ANALYTICAL RESULTS

The data results required by the Revised MRP are summarized in **Table 3**. Laboratory Certificates of Analysis are included in **Attachment B**. The historical analytical data are tabulated in the Tables section.

Table 3 - Analytical data from First Quarter 2022 sampling event

Sample ID	Date	Total Coliform Bacteria (TCO)	Nitrate (as N)[1]	Ammonia	Total Dissolved Solids (TDS)	Dissolved Arsenic	Dissolved Iron	Dissolved Manganese
Analysis Method:		*SM 9221 B*	*EPA 300.0*	*SM4500*	*SM2540C*	*EPA 206.3*	*EPA 206.3*	*EPA 8260*
Units:		*MPN/100ml*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*
CO MW-1	3/15/22	17	7.3	0.074	310	<0.00038	<0.030	0.0010
CO MW-2	3/15/22	26	0.46	0.068	750	<0.00038	<0.030	0.0056
CO MW-3	3/15/22	220	0.75	0.088	480	0.00074	<0.030	0.083

6.0 DISCUSSION

In upgradient well CO MW-1, the groundwater elevation is typically highest in the first or second (and sometimes the third) quarter, and lowest in the third quarter. In downgradient wells CO MW-2 and CO MW-3, the groundwater elevation is typically highest in the first quarter and lowest in the third quarter. The groundwater elevation decreased from the previous quarter in all three monitoring wells (CO MW-1 decreased 1.11 feet; CO MW-2 decreased 0.84 feet; and CO MW-3 decreased 0.57 feet). The average groundwater elevation change was a 0.84-foot decrease. Consistent with historical measurements, the piezometric surface of the groundwater table generally slopes to the southwest at approximately 0.004-0.007 feet per foot (ft/ft). Seasonal groundwater typically fluctuates approximately 3-5 feet in site wells. Hydrographs of site wells are shown in **Figure 4**.

No groundwater limitations are specified in the MRP. In the absence of specified limitations, laboratory results are compared to primary and secondary maximum containment levels (MCL) for drinking water published by the Regional Board. Because high concentrations of many parameters occur naturally in groundwater at the site, an exceedance of an MCL does not necessarily indicate a degradation of background water quality. The groundwater analytical data is tabulated in Attachment A.

This quarter TCO levels remained moderate in all three wells (17 MPN/100mL in CO MW-1; 26 MPN/100mL in CO MW-2; and 220 MPN/100mL in CO-MW-3) with all three being above the Primary MCL (2.2 MPN/100mL). All three wells have a history of TCO detection starting in 2010 and were disinfected using chlorine in May 2013 and also in 2019, a week before the 3rd quarter 2019 sampling event. The intermittent detections of TCO that is most likely due to natural bacteria present in the surrounding groundwater, not merely in the well itself. These detections are not historically considered a result of effluent discharges. Historical coliform values collected from groundwater during quarterly monitoring are graphed on **Figure 5**.

Nitrate-N levels were below the primary MCL of 10 milligrams per liter (mg/L) in all monitoring wells. The highest nitrate-N concentrations are at upgradient well CO MW-1 (7.3 mg/L). Upgradient sources and/or other site uses may influence nitrate-N in CO MW-1 but a watershed-wide groundwater evaluation has not been conducted. Downgradient wells have historically shown lower detection levels near to the method practical quantitation limit (PQL). Fluctuations in nitrate-N concentrations with time are shown on **Figure 6**.

Levels of ammonia-N were detected at trace levels in all of the three monitoring wells this quarter (0.074 mg/L in CO MW-1; 0.068 mg/L in CO MW-2; and 0.088 mg/L in CO MW-3). All levels were well below the secondary MCL of 1.5 mg/L. Historical ammonia-N concentrations are graphed on **Figure 7**.

The TDS in CO MW-2 (750 mg/L) was detected at or above the 500 mg/L secondary MCL for drinking water. Wells CO MW-1 and CO MW-3 were sampled below MCLs. Since monitoring began in 2002, TDS in CO MW-2 has ranged from 600 mg/L to 1,700 mg/L. Well CO MW-2 was completed in clastic sediments of the Modesto Formation. There is no indication that the source of the high TDS at CO MW-2 is from the Treatment Plant effluent. TDS in all wells were within the range of historical values. TDS:EC ratios for natural waters typically range from 0.55 to 0.75. The TDS:EC ratio ranged from 0.82 to 0.94 this quarter with an average of 0.89. Groundwater and effluent TDS values are graphed on **Figure 8**.

Dissolved arsenic was detected at trace to non-detectable levels in the three monitoring wells this sampling event. Testing for arsenic is not required in the MRP. Sample results were all near or below the primary MCL of 0.00038 mg/L. The fluctuations with time of arsenic are shown on **Figure 9**.

Dissolved manganese was detected at relatively low to trace levels in all three monitoring wells. Levels were highest in CO MW-3 (0.083 mg/L) at concentrations just above the secondary MCLs of 0.05 mg/L. MW-3, historical manganese and iron values typically exceed the secondary MCL. It is very possible that these trace-detected levels are from naturally existing conditions of the lateritic bedrock immediately west of the local groundwater table.

Dissolved iron was not detected in any wells. Dissolved iron levels from all wells were below the secondary MCL this quarter. Testing for iron and manganese is not required in the MRP. The fluctuations with time of iron and manganese in groundwater are shown on **Figures 10 and 11**, respectively.

Dissolved oxygen (DO) measurements were above 2.0 mg/L for monitoring well CO MW-1. Levels in CO MW-2 and CO MW-3 were slightly below 2.0 mg/L (1.87 mg/L and 1.59 mg/L, respectively). Site wells have been monitored for dissolved oxygen and oxidation reduction potential (ORP) since 2009. No wells exhibited a low ORP condition (<10 mV) in groundwater this quarter.

The field pH was measured in CO MW-1 (6.44 SU), CO MW-2 (5.72 SU) and CO MW-3 (6.47 SU). All wells were outside the secondary MCL range of 6.5 to 8.5 standard units (SU). Instrument calibration sheets are shown with the field documents in **Attachment A**. Values for pH in CO MW-1, CO MW-2, and CO MW-3 are shown on **Figure 12**.

7.0 CONCLUSIONS

Groundwater monitoring at COGC indicates compliance with the MRP and the Standard Provisions and Reporting Requirements.

Coliform levels remain variable but consistent with natural background levels.

The nitrate-N concentrations did not exceed the water quality objective of 10 mg/L in any wells.

TDS in CO MW-2 exceeded the secondary MCL of 500 mg/L. The elevated TDS in CO MW-2 is likely not a result of TDS in the effluent tertiary-treated water applied at the COGC but instead characteristic of localized natural conditions.

Dissolved iron concentrations were not detected from any wells this quarter. Dissolved manganese concentrations exceeded the secondary MCL levels for one of the wells (0.083 mg/L in CO MW-3) analyzed this quarter. The secondary MCL is not a health-based limit and testing of the effluent for manganese is not required by the MRP.

Dissolved manganese, iron, and arsenic do not appear to be influenced by COGC discharges and are not required by the MRP.

8.0 RECOMMENDATIONS

EcoUrban Associates recommends the following:

- A reduction in sampling frequency (such as semi-annual) might be warranted given the degree of groundwater characterization that has been established from previous sampling events.

9.0 LIMITATIONS AND SIGNATURE

This report has been prepared under the direct supervision of a Professional Geologist in the State of California. The standard of care for all services performed or furnished by EcoUrban Associates is the care and skill ordinarily used by members of the environmental profession practicing under similar conditions at the same time in the same locality. EcoUrban Associates is not responsible for the accuracy and completeness of information collected and developed by others.

This Report was prepared for the sole use of the City and may not be used or relied upon by any other person(s) without the express written consent and authorization of the City and EcoUrban Associates. If any changes are made or errors found in the information used for this Report, the interpretations and conclusions contained herein shall not be considered valid unless the changes or errors are reviewed EcoUrban Associates and either appropriately modified or re-approved in writing. Any questions regarding the content of this document should be directed to the City Manager for Ione, at 209.274.2412, extension 101, or to Christopher Strong of EcoUrban Associates at 209.487.4802.

Respectfully submitted,

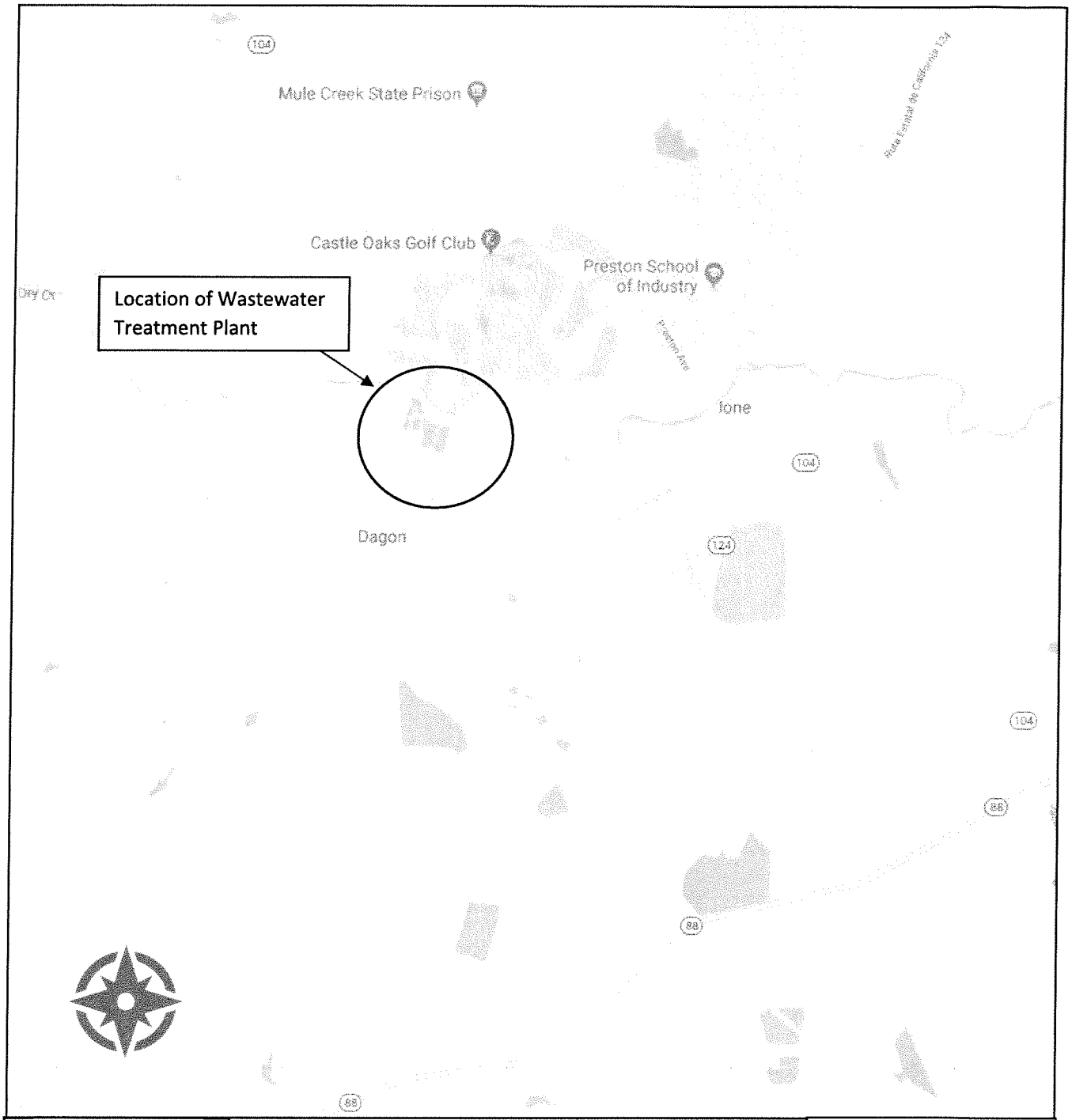
EcoUrban Associates

PROFESSIONAL GEOLOGIST
CHRIS E. STRONG
No. 8070
exp. 11/23
STATE OF CALIFORNIA

(Signature)
Christopher Strong, PG #8070
Geologist
EcoUrban Associates

FIGURES

Site Maps and Time Trend Plots



EcoUrban Associates

EcoUrban Associates
PO Box 411
Ione, CA 95640
(209) 487-4802

Figure 1

Site Vicinity Map

City of Ione

Wastewater Treatment Plant

Ione, CA

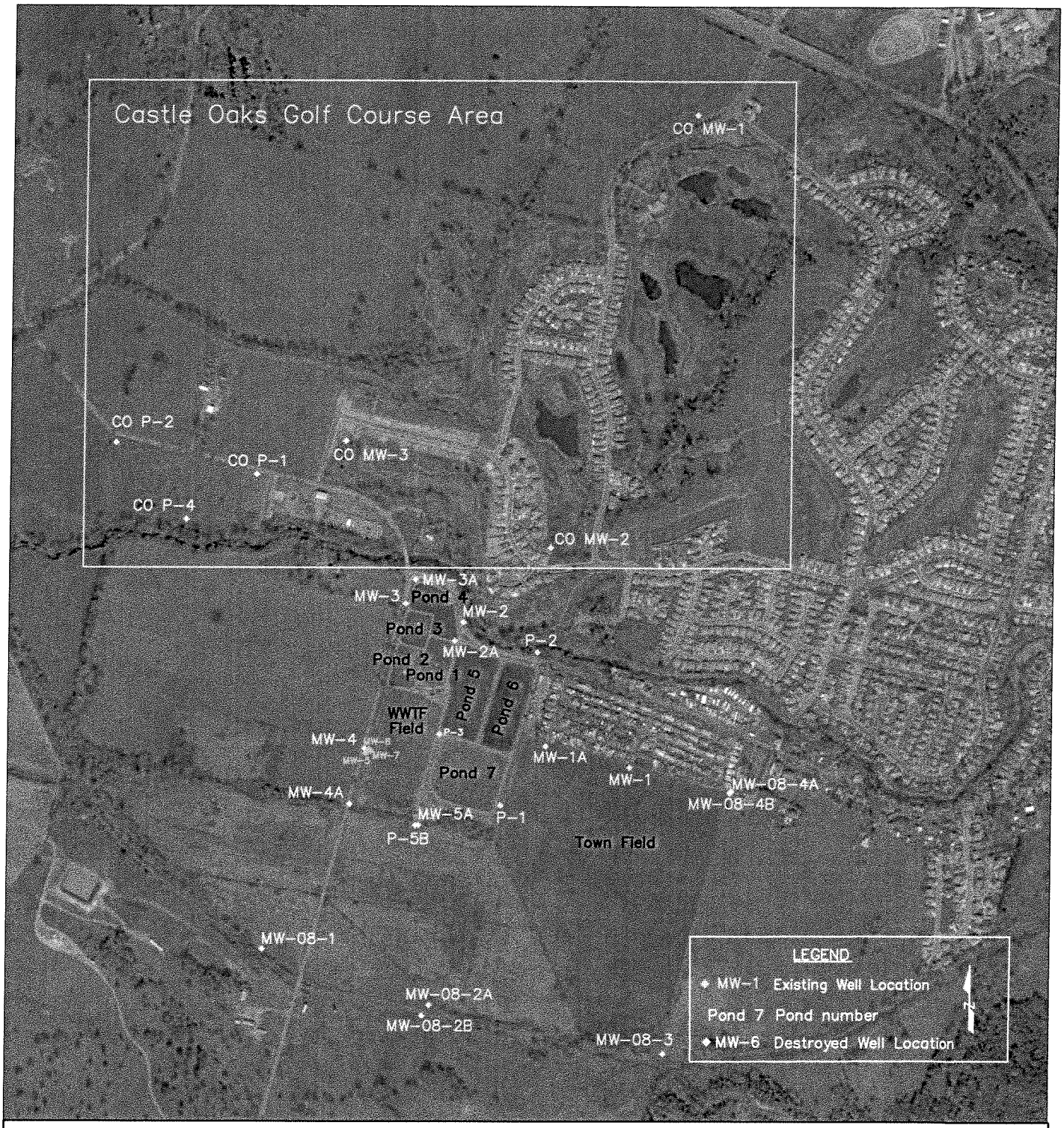
Project No.: AMA.104.01

Drawn by: CES

Dated: 04/16/18

Scale: 1" = 3,000'

Rev'd by: CES

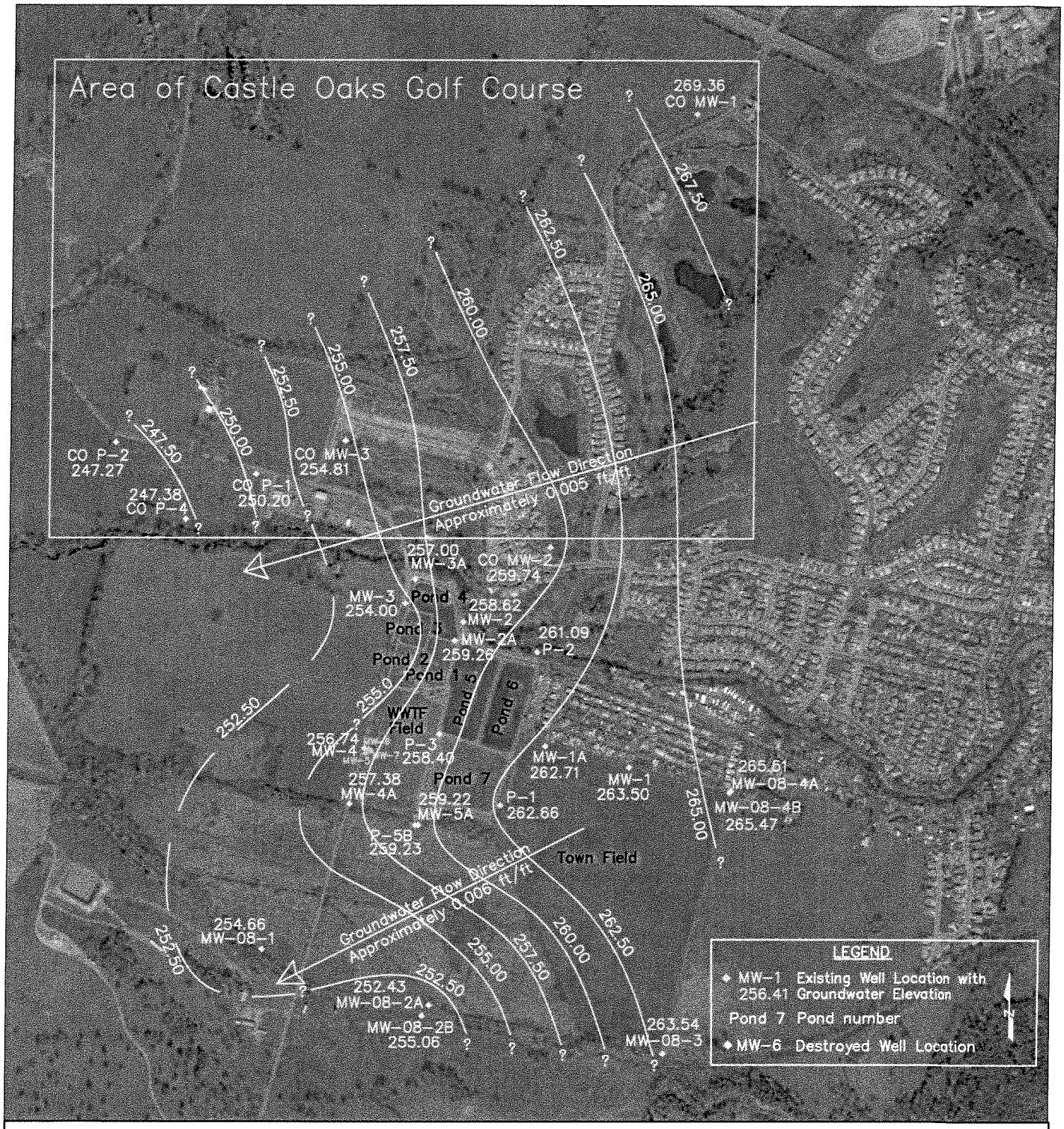


EcoUrban Associates

EcoUrban Associates
PO Box 411
Ione, CA 95640
(209)487-4802

Figure 2
Monitoring Well Location Map
First Quarter 2022
Castle Oaks Golf Course
City of Ione
Ione, California

Project No.:	AMA.104.01
Drawn by:	CES
Dated:	4/15/22
Scale:	~1"=1,000'
Rev'd by:	CES



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(209)487-4802

Figure 3
Groundwater Gradient Map
First Quarter 2022
Castle Oaks Golf Course
City of Ione
Ione, California

Project No.:	AMA.104.01
Drawn by:	CES
Dated:	4/15/22
Scale:	~1"=1,000'
Rev'd by:	CES

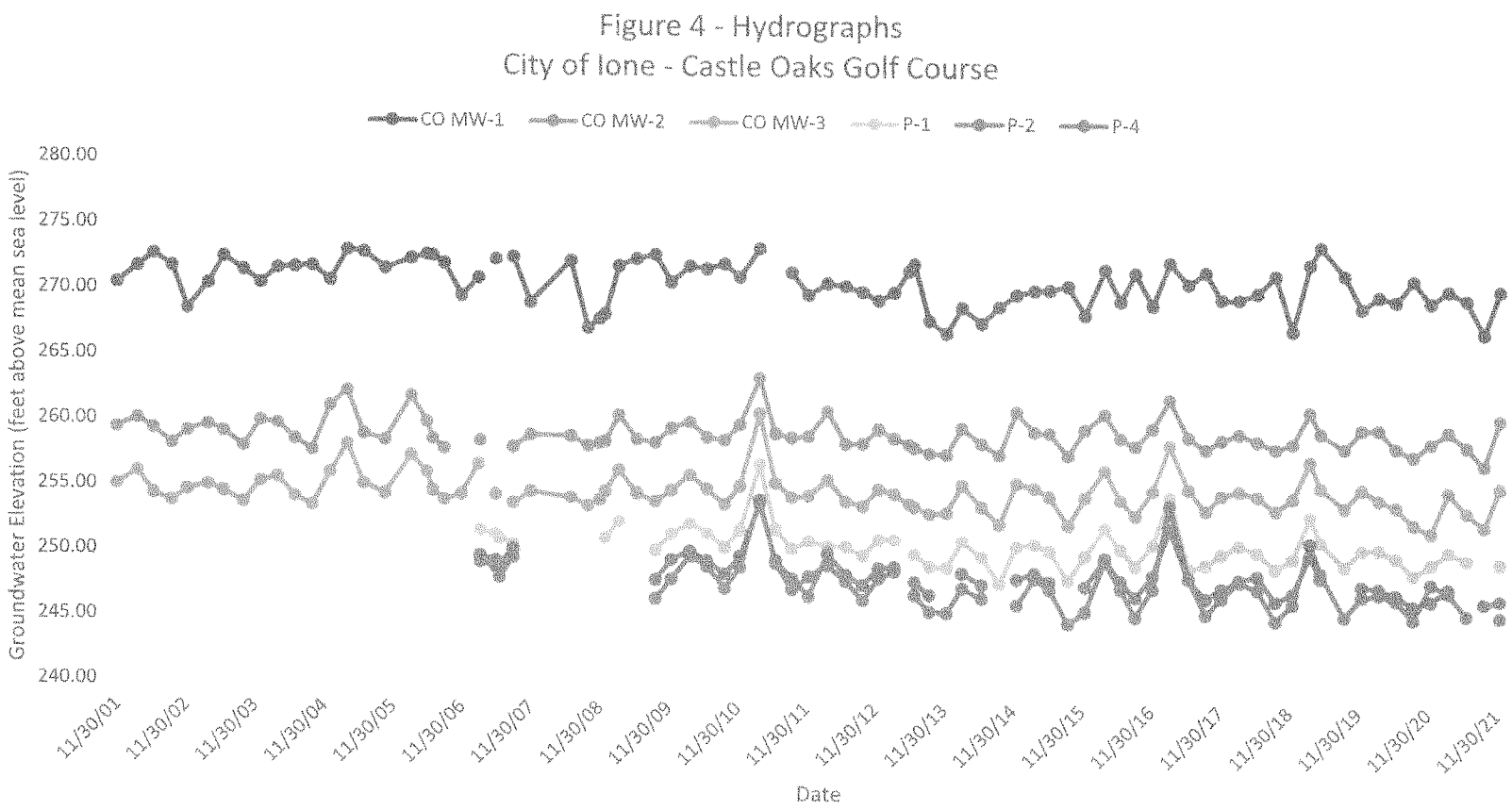
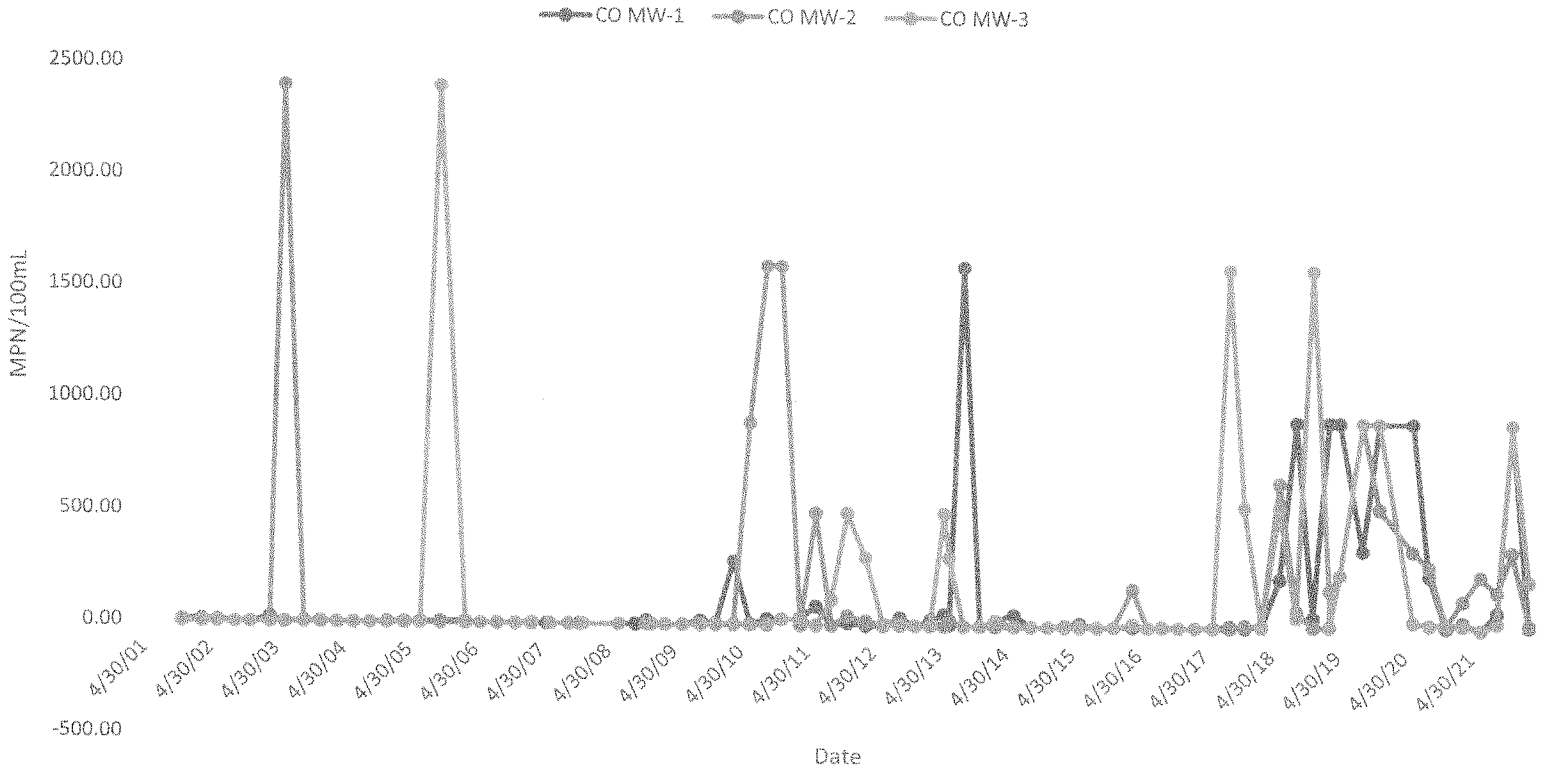


Figure 4 - Hydrographs
City of Ione - Castle Oaks Golf Course
CO MW-1
CO MW-2
CO MW-3
P-1
P-2
P-4
Groundwater Elevation (feet above mean sea level)
280.00
275.00
270.00
265.00
260.00
255.00
250.00
245.00
240.00
11/30/01
11/30/02
11/30/03
11/30/04
11/30/05
11/30/06
11/30/07
11/30/08
11/30/09
11/30/10
11/30/11
11/30/12
11/30/13
11/30/14
11/30/15
11/30/16
11/30/17
11/30/18
11/30/19
11/30/20
11/30/21
Date

Figure 5 - Total Coliform Organisms in Groundwater
City of Ione - Castle Oaks Golf Course



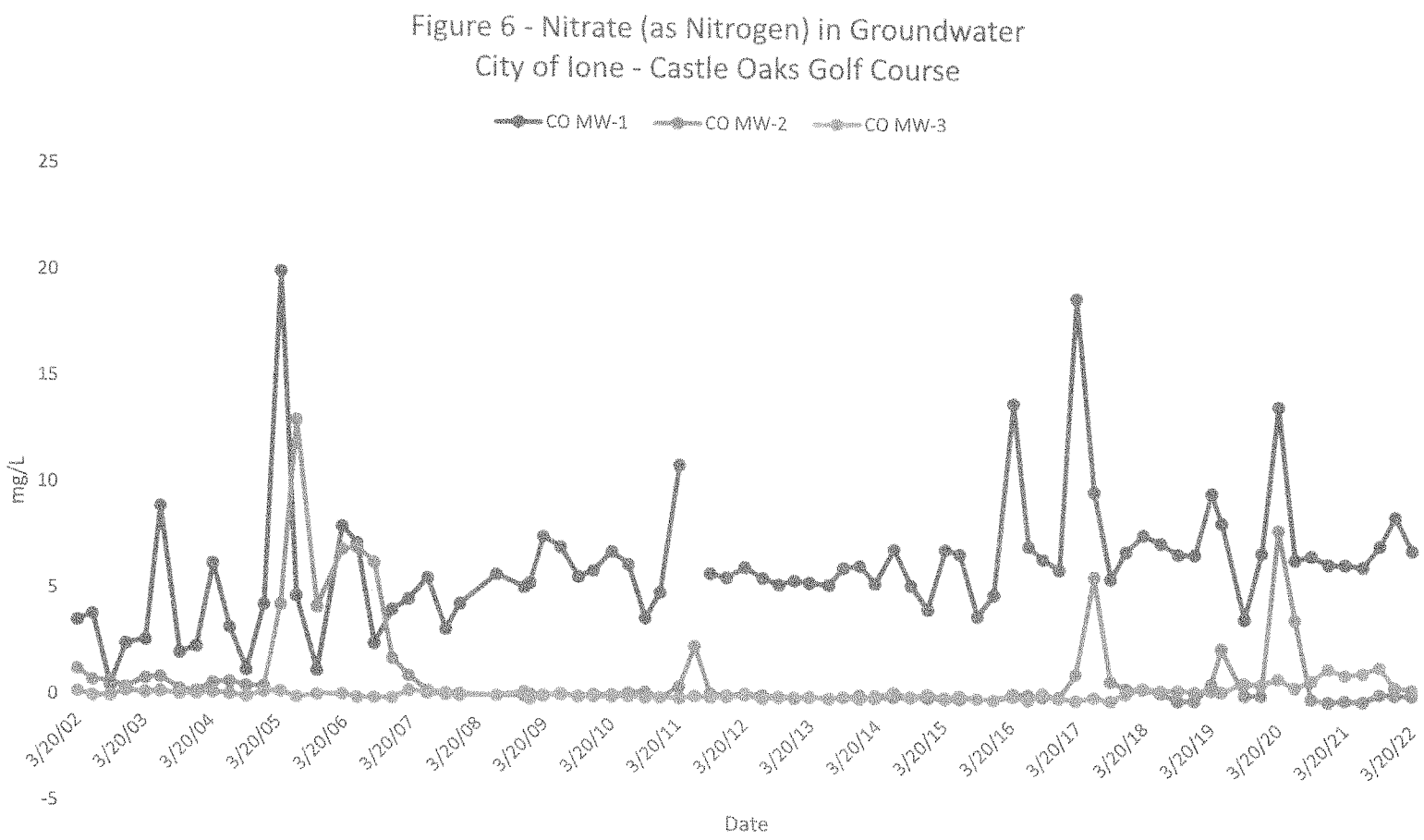


Figure 6 - Nitrate (as Nitrogen) in Groundwater
City of Ione - Castle Oaks Golf Course
CO MW-1
CO MW-2
CO MW-3
mg/L
25
20
15
10
5
0
-5
3/20/02
3/20/03
3/20/04
3/20/05
3/20/06
3/20/07
3/20/08
3/20/09
3/20/10
3/20/11
3/20/12
3/20/13
3/20/14
3/20/15
3/20/16
3/20/17
3/20/18
3/20/19
3/20/20
3/20/21
3/20/22
Date

Figure 7 - Ammonia (as Nitrogen) in Groundwater
City of Ione - Castle Oaks Golf Course

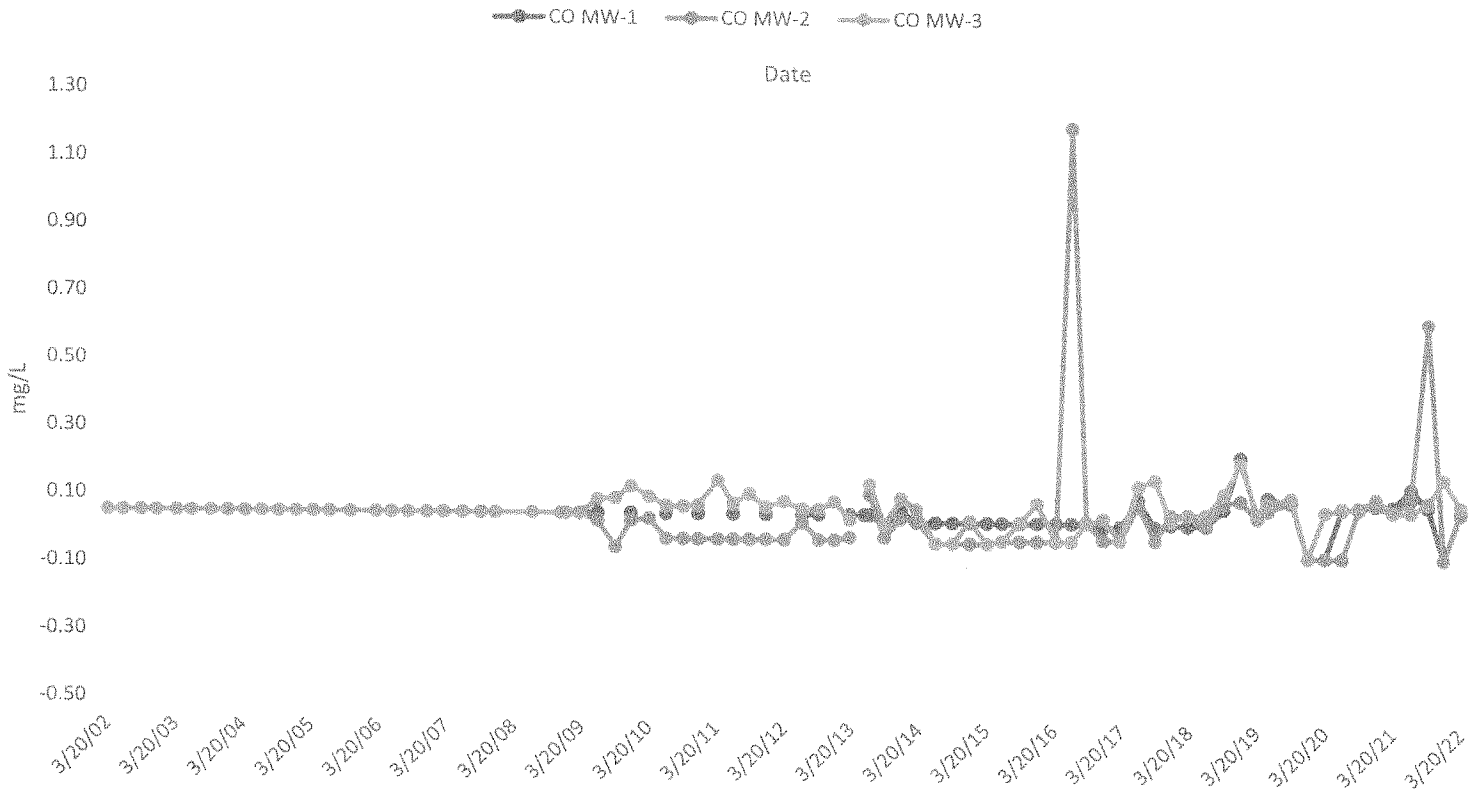


Figure 8 - Total Dissolved Solids in Groundwater
City of Ione - Castle Oaks Golf Course

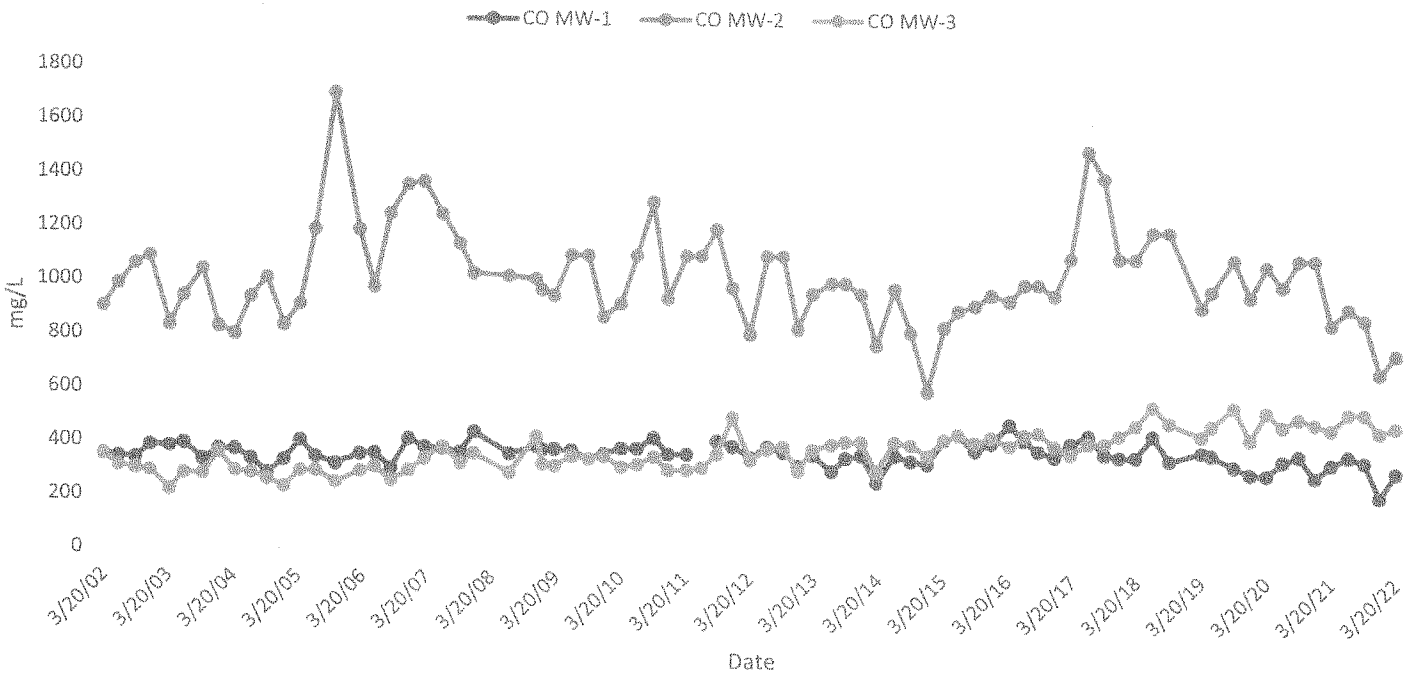
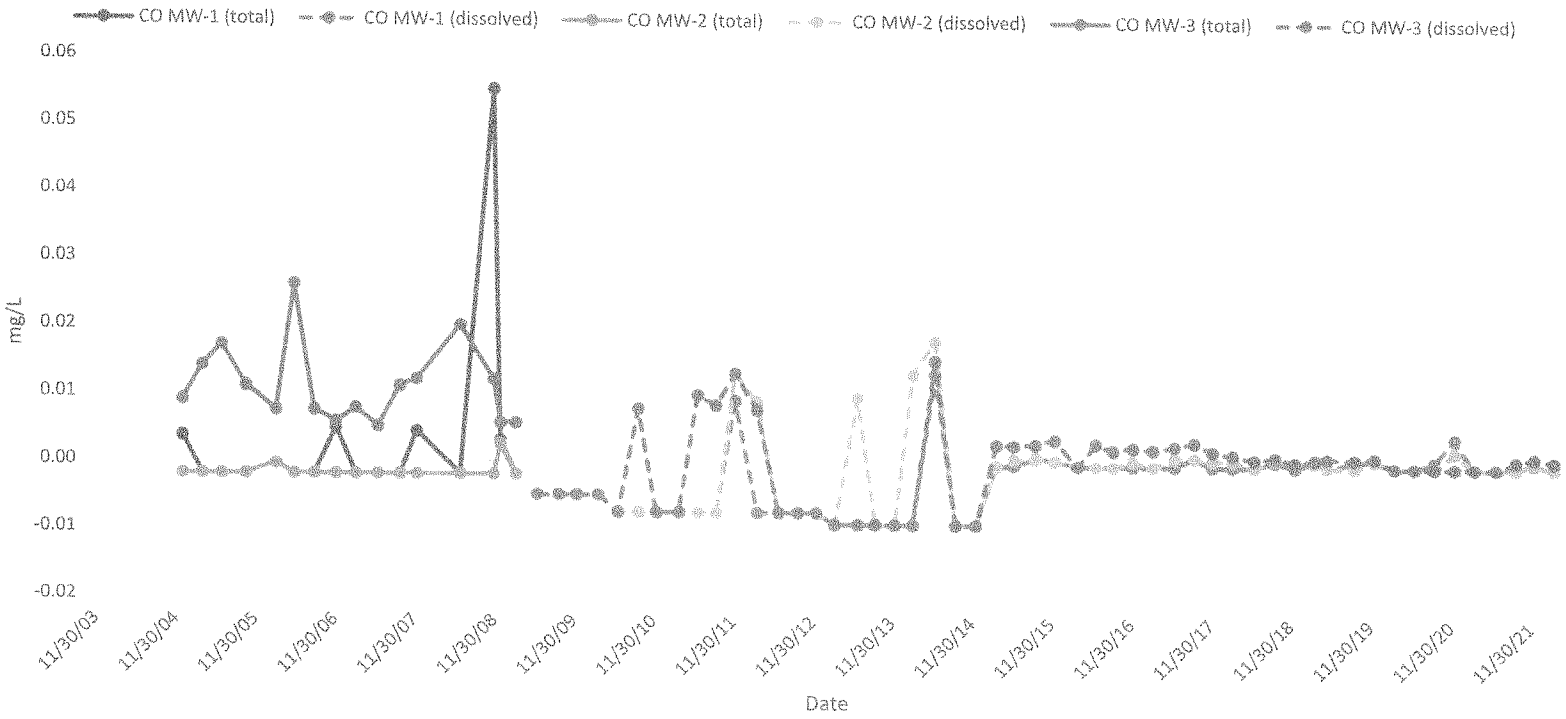


Figure 9 - Total and Dissolved Arsenic in Groundwater
City of Ione - Castle Oaks Golf Course



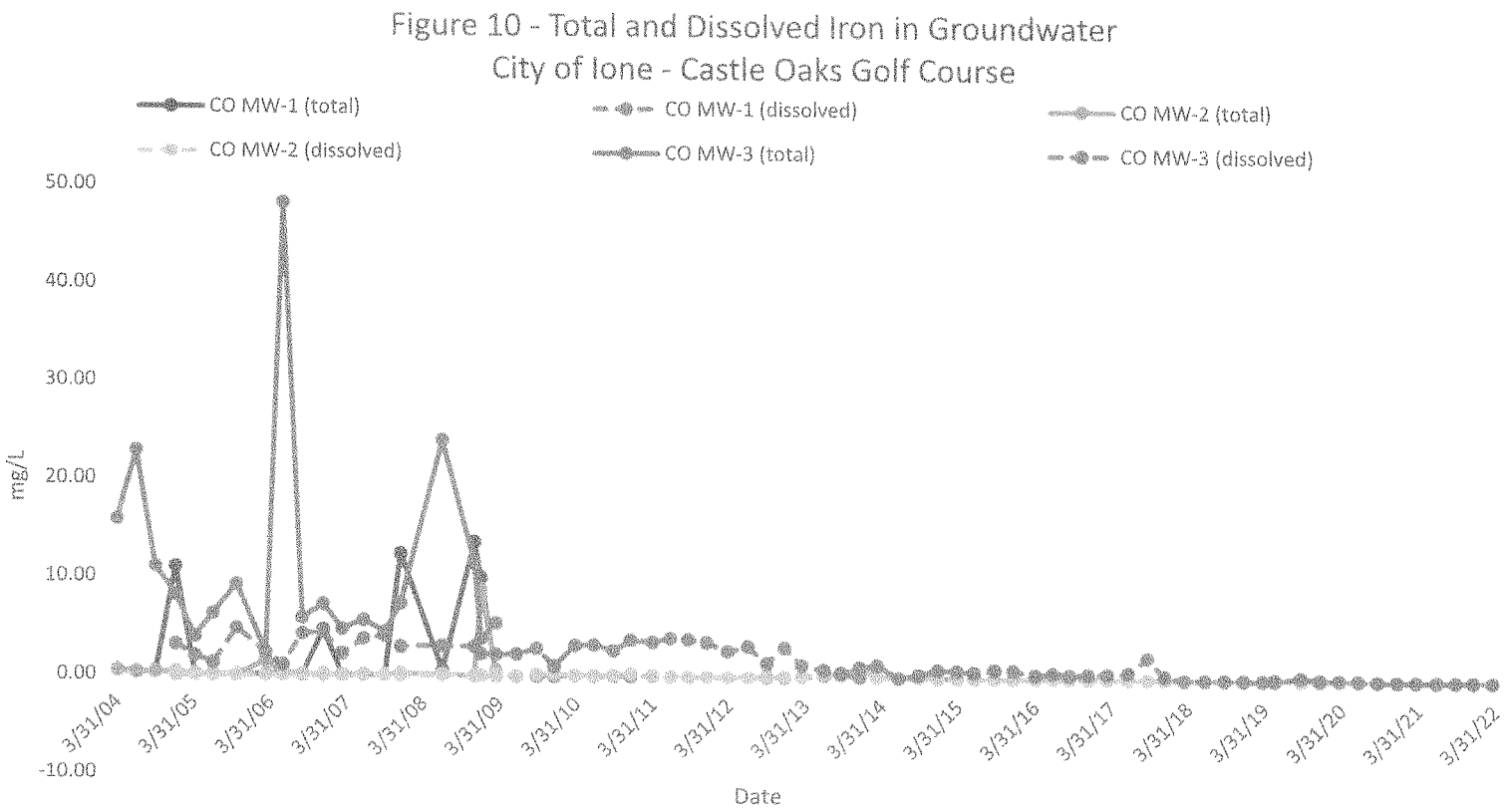
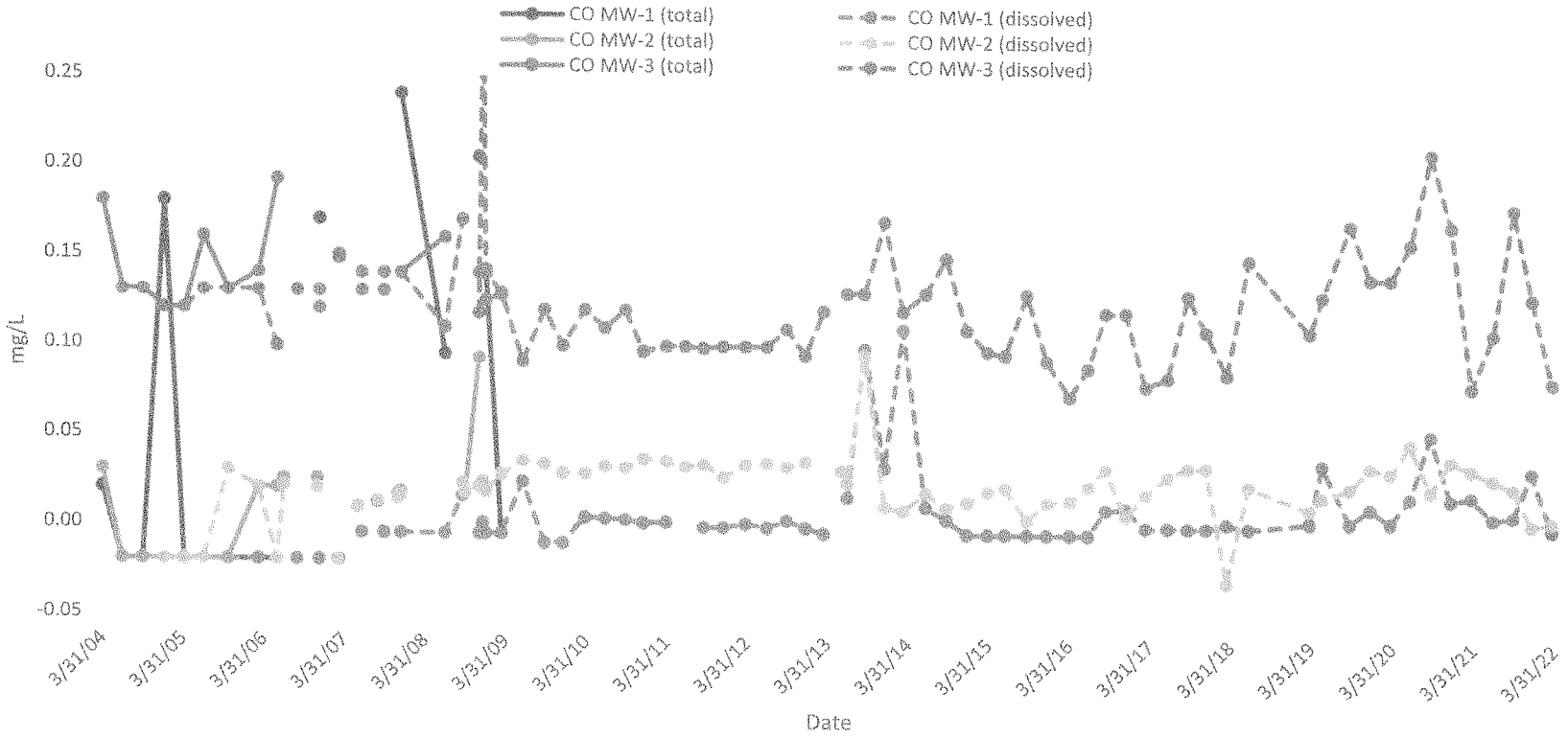


Figure 10 - Total and Dissolved Iron in Groundwater
City of Ione - Castle Oaks Golf Course
CO MW-1 (total)
CO MW-1 (dissolved)
CO MW-2 (total)
CO MW-2 (dissolved)
CO MW-3 (total)
CO MW-3 (dissolved)
50.00
40.00
30.00
20.00
10.00
0.00
-10.00
mg/L
3/31/04
3/31/05
3/31/06
3/31/07
3/31/08
3/31/09
3/31/10
3/31/11
3/31/12
3/31/13
3/31/14
3/31/15
3/31/16
3/31/17
3/31/18
3/31/19
3/31/20
3/31/21
3/31/22
Date

Figure 11
Total and Dissolved Manganese in Groundwater
City of Ione - Castle Oaks Golf Course



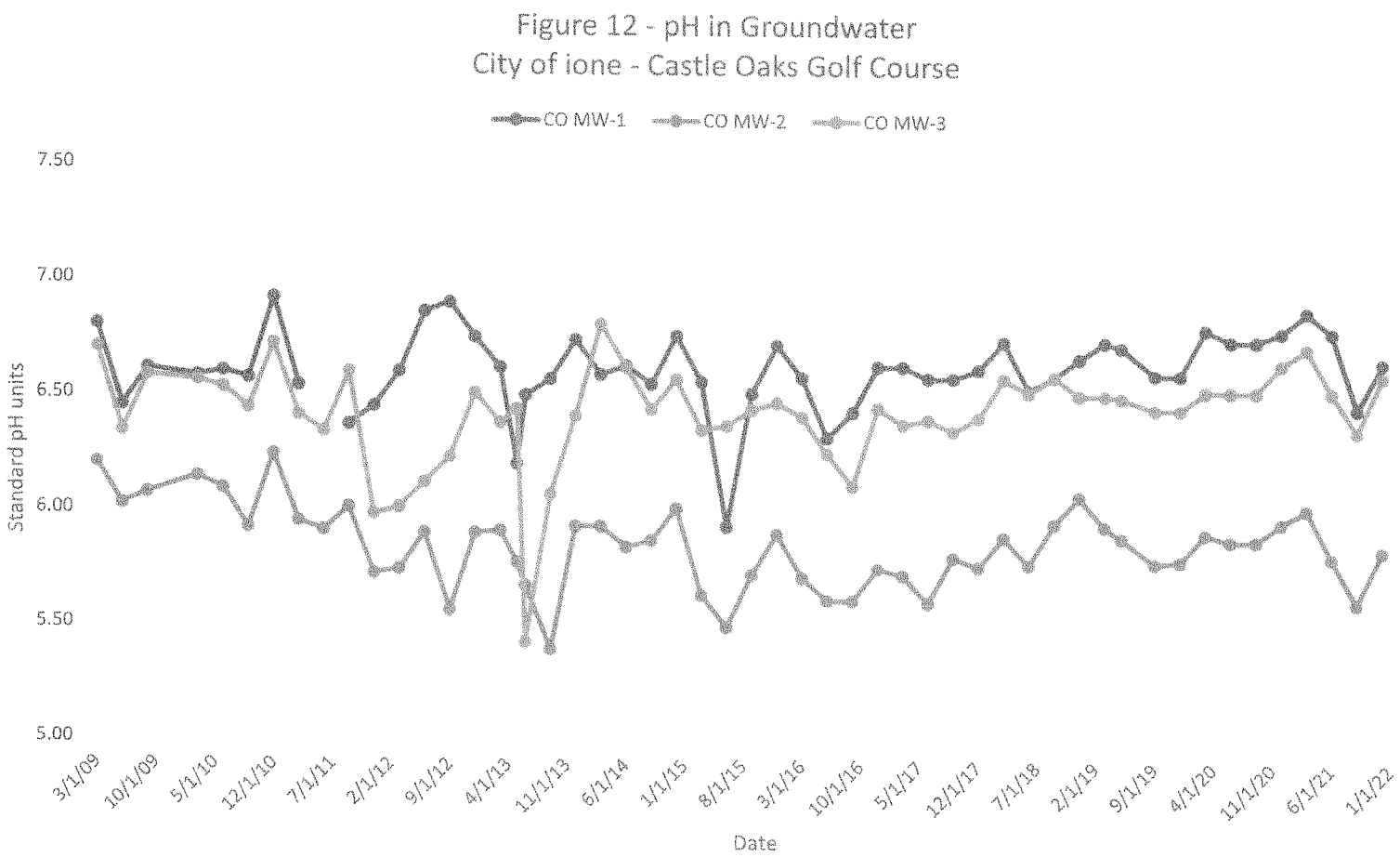


Figure 12 - pH in Groundwater
City of ione - Castle Oaks Golf Course
CO MW-1
CO MW-2
CO MW-3
7.50
7.00
6.50
6.00
5.50
5.00
Standard pH units
3/1/09
10/1/09
5/1/10
12/1/10
7/1/11
2/1/12
9/1/12
4/1/13
11/1/13
6/1/14
1/1/15
8/1/15
3/1/16
10/1/16
5/1/17
12/1/17
7/1/18
2/1/19
9/1/19
4/1/20
11/1/20
6/1/21
1/1/22
Date

TABLES

Historic Groundwater Data

Table 1

Historical Groundwater Quality Data
Castle Oaks Golf Course
City of Ione

Sample ID	MP Elevation	Date	Depth to Water	Ground-Water Elevation	Survey Mark Elevation	Volume Purged, gal.	Temp.	Field pH	Field EC	Dissolved Oxygen	Oxidation/ Reduction Potential	Field TDS	Total Coliform Bacteria (TCO)	Fecal Coliform Bacteria (FCO)	Nitrate (as N)[1]	Total Dissolved Solids (TDS)	Chloride	Total Sodium	Total Arsenic	Dissolved Arsenic	Total Iron	Dissolved Iron	Total Manganese	Dissolved Manganese	Ammonia	TOC
		Analysis Method:	*Probe*	*Calculated*	*Surveyed*	*Measured*	*Measured*	*Metered*	*Metered*	*Metered*	*Metered*		*SM 9221 B*	*SM 9221 E*	*EPA 300.0*	*SM2540C*	*EPA 300.0*	*EPA 200.8*	*EPA 206.2*	*EPA 206.3*	*EPA 200.7*	*EPA 8260*	*EPA 200.7*	*EPA 8260*	*SM4500*	*EPA 8260*
		Units:	*ft*	*ft. msl*	*ft. msl*	*gal*	*deg C*	*std units*	*umhs/cm*	*mg/L*	*Mv*	*mg/L*	*MPN/100ml*	*MPN/100ml*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*
		MCL (Secondary MCL where shaded)						*6.5-8.5*	*900*				*2.2*	*2.2*	*10*	*500*	*250*		*0.010*	*0.010*	*0.3*	*0.3*	*0.05*	*0.05*	*1.5*	
MW1	280.75	11/30/01		270.42	280.75								4													
MW1		3/20/02		271.67	280.75								8		3.5	353										
MW1		6/12/02		272.63	280.75								4		3.8	342									-0.5	
MW1		9/17/02		271.69	280.75								-2		0.45	337									-0.5	
MW1		12/9/02		268.46	280.75								-2		2.4	384									-0.5	
MW1		3/28/03		270.38	280.75								17		2.6	381									-0.5	
MW1		6/17/03		272.43	280.75								-2		8.9	392									-1	
MW1		10/1/03		271.43	280.75								2	-2	2	332									-0.5	
MW1		12/31/03		270.45	280.75								-2	-2	2.3	370									-0.5	
MW1		3/31/04		271.59	280.75								-2	-2	6.2	370					0.41		0.02		-0.5	
MW1		6/30/04		271.66	280.75								-2	-2	3.2	335					0.25		-0.020		-0.5	
MW1		9/30/04		271.76	280.75								-2	-2	1.2	282					0.26		-0.020		-0.5	
MW1		1/3/05		270.68	280.75								-2	-2	4.3	332			0.0036		11.0	-0.050	0.18	-0.020	-0.5	<0.20
MW1		4/5/05		272.99	280.75								2	-2	20	405			-0.002		-0.050	-0.050	-0.020	-0.020	-0.5	
MW1		7/1/05		272.84	280.75								2	-2	4.7	344			-0.002		-0.050	-0.050	-0.020	-0.020	-0.5	
MW1		10/21/05		271.59	280.75								2	-2	1.2	317			-0.002		-0.050	-0.050	-0.020	-0.020	-0.5	1.3
MW1		3/8/06	8.39	272.36	280.75	272.36							4	-2	8	354			-0.0005		-0.050	-0.050	-0.020	-0.020	-0.5	0.84
MW1		5/30/06	8.09	272.66	280.75								-2	-2	7.2	359			-0.002		0.139	-0.050	-0.020	-0.020	-0.5	1.4
MW1		6/30/06	8.15	272.60	280.75																					
MW1		8/30/06	8.74	272.01	280.75								-2	-2	2.5	300	47	34	-0.002		-0.050	-0.050	-0.020	-0.020	-0.5	0.68
MW1		11/30/06	11.21	269.54	280.75																					
MW1		12/8/06			280.75								-2	-2	4.1	411	51	27	0.0048		4.6	0.110	0.17	-0.020	-0.5	0.39
MW1		2/27/07	9.83	270.92	280.75																					
MW1		3/8/07			280.75								-2	-2	4.6	382	51	26.9	-0.002		-0.050	-0.050	-0.020	-0.020	-0.5	0.91
MW1		5/31/07	8.40	272.35	280.75																					
MW1		6/19/07			280.75								-2	-2	5.6	377	46	37	-0.002		0.085	-0.020	-0.005	-0.005	-0.5	0.72
MW1		8/30/07	8.23	272.52	280.75																					
MW1		9/27/07			280.75								-2	-2	3.2	363	72	36	-0.002		-0.020	-0.020	-0.005	-0.005	-0.5	0.98
MW1		11/30/07	11.69	269.06	280.75																					
MW1		12/13/07			280.75								-2	-2	4.4	439			0.0043		12.4	-0.020	0.24	-0.005	-0.5	0.61
MW1		6/30/08	8.50	272.25	280.75								-2	-2	5.8	357	78	34	-0.002		0.490	-0.020	0.095	-0.005	-0.5	0.82
MW1		9/30/08	13.61	267.14	280.75																					
MW1		11/30/08	12.92	267.83	280.75								-2	-2	5.2	385	58	27	0.055		13.60	-0.020	0.205	-0.005	-0.5	0.62
MW1		12/31/08	12.56	268.19	280.75								-2	-2	5.4	374	60	27	0.003		9.98	-0.020	0.142	-0.005	-0.5	0.29
MW1		3/12/09	8.89	271.86	280.75	7	18.0	6.80	565				14	-2	7.6	376	60	27	-0.002		0.173	-0.020	-0.005	-0.005	-0.5	0.50
MW1		6/17/09	8.33	272.42	280.75	95	20.9	6.45	640	5.06	-15.9	416	-2	-2	7.1	370	72	32		-0.050		-0.050		0.024	0.04	0.63
MW1		9/22/09	7.99	272.76	280.75	3	24.21	6.61	576	4.84	96.8	373	-2	-2	5.7	340				-0.050		-0.050		-0.010	0.025	
MW1		12/15/09	10.11	270.64	280.75	5	20.52	7.51	582	3.56	39.0	378	-2	-2	6	360				-0.050		-0.050		-0.010	-0.05	
MW1		3/24/10	8.86	271.89	280.75	5	17.65	6.58	643	4.92	71.3	418	14	-2	6.9	380				-0.050		0.076		0.0042	0.049	
MW1		6/23/10	9.06	271.69	280.75	5	18.55	6.60	680	6.60	101.4	442	4	-2	6.3	380				-0.0075		0.022		0.0038	-0.025	
MW1		9/24/10	8.69	272.06	280.75	5	23.30	6.57	587	4.05	280.5	382	280	-2	3.8	420				-0.0075		0.047		0.0030	-0.025	
MW1		12/14/10	9.66	271.09	280.75	5	19.61	6.92	598	4.49	104.1	389	2.0		5.0	360				-0.0075		-0.005		0.0013	-0.025	
MW1		3/29/11	7.49	273.26	280.75	5	17.10	6.54	614	3.95	-136.8	399	23		11	360				-0.0075		0.084		0.0019	0.059	
MW1		6/22/11	Bent closed, unable to sample																							
MW1		9/15/11	9.29	271.46	280.75	5	20.81	6.37	586	5.02	79.4	381	30		5.9	410				-0.0075		0.0054		-0.0010	-0.025	
MW1		12/13/11	11.01	269.74	280.75	4	19.49	6.45	591	3.66	55.0	384	80	-2	5.7	390				0.0089		0.0057		-0.0010	-0.025	
MW1		3/22/12	10.13	270.62	280.75	4	17.09	6.60	590	4.15	63.7	384	-2		6.2	350				-0.0075		0.0220		0.0011	-0.025	
MW1		6/27/12	9.84	270.44	280.28	5	19.46	6.86	582	6.34	88.2	379	8.0	-2	5.7	390				-0.0075		0.0067		-0.0010	-0.025	
MW1		9/25/12	10.28	270.00	280.28	4	23.87	6.90	606	4.05	49.9	394	-2		5.4	370				-0.0075		-0.0050		0.0031	-0.025	
MW1		12/18/12	10.92	269.36	280.28	10+	20.49	6.75	578	3.20	144.4	376	-2		5.6	320				-0.0075		-0.005		-0.0010	-0.025	
MW1		3/11/13	10.30	269.98	280.28	6	18.46	6.62	590	4.29	126.0	383	33		5.5	360				-0.0092		0.039		-0.0040	-0.017	
MW1		6/26/13	8.14	272.14	280.28	5	21.39	6.50	500	4.16	160.4	325	22		5.4	300				-0.0092		0.220		0.016	0.025	
MW1		9/13/13	12.44	267.84	280.28	3	21.18	6.57	609	3.15	203.4	396	50		6.2	350				-0.0092		0.520		0.099	0.019	
MW1		12/12/13	13.40	266.88	280.28	2	21.60	6.74	610	2.00	90.2	396	4.0		6.3	360				-0.0092		0.036		0.033	0.061	
MW1		3/5/14	11.44	268.84	280.28	4	18.90	6.59	504	3.02	179.4	328	> 1600		5.5	260				-0.0092		1.300		0.110	0.029	
MW1		6/16/14	12.62	267.66	280.28	4	19.59	6.63	624	2.10	96.4	406	-2		7.1	360				0.0130		-0.030		0.011	-0.033	
MW1		9/17/14	11.35	268.93	280.28	4	21.66	6.55	571	1.32	132.6	371	23		5.4	340				-0.0092		0.088		0.0042	-0.033	
MW1		12/19/14	10.42	269.86	280.28	6	21.98	6.76	519	2.71	169.3	337	50		4.3	330				-0.0092		-0.030		-0.0040	-0.033	
MW1		3/23/15	10.09	270.19	280.28	6	18.90	6.56	602	3.00	58.1	391	-2		7.1	420				-0.00038		-0.030		-0.0040	-0.033	
MW1		6/10/15	10.04	270.24	280.28	5	19.36	5.93	562	3.33	135.1	365	-2		6.9	440				-0.00038		-0.030		-0.0040	-0.025	
MW1		9/16/15	9.72	270.56	280.28	5	23.05	6.51	591	4.45	101.5	385	2.0		4.0	380				0.00078		-0.030		-0.0040	-0.025	
MW1		12/15/15	11.92	268.36	280.28	4	21.97	6.72	567	2.24	45.6	369	13		5.0	410				0.00043		-0.030		-0.0040	-0.025	
MW1		3/29/16	8.44	271.84	280.28	5	18.12	6.58	606	3.66	138.9	394	-1.8		14	480				-0.00038		-0.030		-0.0040	-0.025	

Table 1

Historical Groundwater Quality Data
Castle Oaks Golf Course
City of Ione

Sample ID	MP Elevation	Date	Depth to Water	Ground-Water Elevation	Survey Mark Elevation	Volume Purged, gal.	Temp.	Field pH	Field EC	Dissolved Oxygen	Oxidation/ Reduction Potential	Field TDS	Total Coliform Bacteria (TCO)	Fecal Coliform Bacteria (FCO)	Nitrate (as N)[1]	Total Dissolved Solids (TDS)	Chloride	Total Sodium	Total Arsenic	Dissolved Arsenic	Total Iron	Dissolved Iron	Total Manganese	Dissolved Manganese	Ammonia	TOC
		Analysis Method:	*Probe*	*Calculated*	*Surveyed*	*Measured*	*Metered*	*Metered*	*Metered*	*Metered*	*Metered*		*SM 9221 B*	*SM 9221 E*	*EPA 300.0*	*SM2540C*	*EPA 300.0*	*EPA 200.8*	*EPA 206.2*	*EPA 206.3*	*EPA 200.7*	*EPA 8260*	*EPA 200.7*	*EPA 8260*	*SM4500*	*EPA 8260*
		Units:	*ft*	*ft. msl*	*ft. msl*	*gal*	*deg C*	*std units*	*umhs/cm*	*mg/L*	*Mv*	*mg/L*	*MPN/100ml*	*MPN/100ml*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*
		MCL (Secondary MCL where shaded)						*6.5-8.5*	*900*				*2.2*	*2.2*	*10*	*500*	*250*		*0.010*	*0.010*	*0.3*	*0.3*	*0.05*	*0.05*	*1.5*	
MW1		6/20/16	10.84	269.44	280.28	4	18.89	6.32	595	2.72	151.2	387	-1.8		7.3	420				-0.00038		-0.030		-0.0040	-0.025	
MW1		9/7/16	8.69	271.59	280.28	5	23.08	6.43	604	5.69	276.9	393	2.0		6.7	380				-0.00038		-0.030		0.010	-0.025	
MW1		12/7/16	11.15	269.13	280.28	4	21.4	6.63	566	1.65	85.2	371	-1.8		6.2	360				-0.00038		0.140		0.011	-0.020	
MW1	continued	3/8/17	7.87	272.41	280.28	5	17.5	6.63	615	4.44	221.7	402	2.0		19	410				-0.00038		-0.030		0.00025	-0.020	
MW1	280.28	6/15/17	9.49	270.79	280.28	5	18.0	6.58	595	3.49	222.2	390	-1.8		9.9	440				-0.00038		-0.030		0.00060	0.098	
MW1		9/14/17	8.59	271.69	280.28	5	23.4	6.58	547	4.33	255.4	358	-1.8		5.8	370				0.00099		-0.030		0.00023	-0.020	
MW1		12/6/17	10.64	269.64	280.28	4	20.9	6.62	564	4.04	155.7	364	2.0		7.1	360				-0.00038		-0.030		0.00042	0.028	
MW1		3/9/18	10.64	269.64	280.28	4.0	18.7	6.74	674	3.7	158	336	8		7.9	360				0.00040		-0.030		0.0028	0.024	
MW1		6/15/18	10.13	270.15	280.28	3.5	17.1	6.53	675	3.6	156	340	220		7.5	440				-0.00038		-0.030		0.00048	0.025	
MW1		9/17/18	8.79	271.49	280.28	4.5	20.1	6.59	670	4.1	140	330	920		7.0	350				0.00043		-0.030		0.016	0.075	
MW1		12/17/18	13.02	267.26	280.28	3.0	19.9	6.67	640	2.6	170	320	49		7.0	390				-0.00038		-0.030		0.00089	0.23	
MW1		3/18/19	7.91	272.37	280.28	5.0	17.3	6.74	520	6.8	162	372	920		9.9	380				0.00039		-0.030		0.0037	-0.050	
MW1		5/13/19	6.54	273.74	280.28	4.0	16.8	6.72	576	5.6	157	411	920		8.5	370				-0.00038		0.036		0.0021	0.11	
MW1		9/16/19	8.72	271.56	280.28	4.5	22.9	6.60	540	6.8	69	382	350		4.0	330				0.00046		0.14		0.0040	0.096	
MW1		12/16/19	11.25	269.03	280.28	3.0	19.7	6.68	489	2.29	204	347	920		7.1	300				0.00074		-0.030		0.0120	<0.067	
MW1		3/16/19	10.33	269.95	280.28	3.5	16.9	6.80	412	7.12	181	297	920		14	270				-0.00038		0.11		0.0043	0.072	
MW1		6/16/20	10.69	269.59	280.28	3.5	18.5	6.75	555	3.38	208	388	920		6.8	350				-0.00038		0.048		0.018	0.080	
MW1		9/14/20	9.09	271.19	280.28	4.0	20.9	6.75	535	3.14	199	381	240		7.0	370				0.00058		-0.030		0.053	0.081	
MW1		12/15/20	10.77	269.51	280.28	3.5	15.9	6.79	564	3.35	221	400	9.3		6.6	290				0.00040		-0.030		0.017	0.089	
MW1		3/17/21	9.83	270.45	280.28	4.0	17.3	6.88	510	3.81	205	363	34		6.6	340				-0.00038		-0.15		0.019	0.086	
MW1		6/22/21	10.55	269.73	280.28	3.5	19.0	6.79	515	4.13	128	363	< 1.8		6.5	370				0.00003		-0.030		0.007	0.087	
MW1		9/21/21	13.11	267.17	280.28	2.5	19.2	6.46	545	3.06	206	387	79		7.5	350				0.00073		-0.030		0.0085	0.087	
MW1		12/14/21	9.81	270.47	280.28	4.0	17.9	6.66	214	7.17	238	152	920		8.9	220				0.00047		0.049		0.033	<0.067	
MW1		3/16/22	10.92	269.36	280.28	3.5	17.6	6.44	377	4.01	177	273	17		7.3	310				-0.00038		-0.030		0.0010	0.074	
MW2	272.01	11/30/01		259.34	272.01								-2													
MW2		3/20/02		260.05	272.01								-2		1.2	901										
MW2		6/12/02		259.26	272.01								-2		0.7	984									-0.5	
MW2		9/17/02		258.12	272.01								-2		0.62	1060									-0.5	
MW2		12/9/02		259.08	272.01								-2		0.36	1090									-0.5	
MW2		3/28/03		259.59	272.01								-2		0.8	832									-0.5	
MW2		6/17/03		259.09	272.01								> 2400		0.85	942									-1	
MW2		10/1/03		257.93	272.01								2	-2	0.29	1040									-0.5	
MW2		12/31/03		259.92	272.01								2	-2	0.2	829									-0.5	
MW2		3/31/04		259.72	272.01								-2	-2	0.59	800					0.37		0.03		-0.5	
MW2		6/30/04		258.51	272.01								-2	-2	0.66	938					0.16		-0.020		-0.5	
MW2		9/30/04		257.67	272.01								-2	-2	0.46	1010					0.23		-0.020		-0.5	
MW2		1/3/05		261.09	272.01								2	-2	0.43	833			-0.002		0.25	0.060	-0.020	-0.020	-0.5	1.7
MW2		4/5/05		262.26	272.01								2	-2	4.3	912			-0.002		0.07	-0.050	-0.020	-0.020	-0.5	
MW2		7/1/05		258.93	272.01								-2	-2	13	1190			-0.002		0.06	-0.050	-0.020	-0.020	-0.5	
MW2		10/21/05		258.46	272.01								-2	-2	4.2	1700			-0.002		-0.050	-0.050	-0.020	0.030	-0.5	4.4
MW2		3/8/06	10.16	261.85	272.01								-2	-2	6.9	1190			-0.0005		1.44	-0.050	0.02	0.020	-0.5	3.5
MW2		5/30/06	12.11	259.90	272.01								-2	-2	7	977			-0.002		0.232	-0.050	0.020	-0.020	-0.5	2.3
MW2		8/23/06	13.41	258.60	272.01								-2	-2	6.3	1250	160	87	-0.002		0.1	-0.050	0.025	0.021	-0.5	4.0
MW2		11/30/06	14.16	257.85	272.01																					
MW2		12/8/06			272.01								-2	-2	1.8	1360	175	82	-0.002		-0.050	-0.050	0.025	0.020	-0.5	2.7
MW2		2/27/07	11.45	260.56	272.01																					
MW2		3/8/07			272.01								-2	-2	1	1370	177	81	-0.002		-0.050	-0.050	-0.020	-0.020	-0.5	2.9
MW2		5/31/07	13.54	258.47	272.01																					
MW2		6/19/07			272.01								-2	-2	0.31	1250	154	91	-0.002		-0.020	-0.020	0.0095	0.009	-0.5	2.8
MW2		8/30/07	14.02	257.99	272.01																					
MW2		9/27/07			272.01								-2	-2	0.19	1140	155	100	-0.002		0.025	-0.020	0.012	0.013	-0.5	2.6
MW2		11/30/07	13.09	258.92	272.01																					
MW2		12/13/07			272.01								-2	-2	0.16	1030			-0.002		0.2	0.052	0.017	0.014	-0.5	2.0
MW2		6/30/08	13.17	258.84	272.01								-2	-2	0.1	1020	135	88	-0.002		0.12	-0.020	0.018	0.016	-0.5	2.4
MW2		9/30/08	13.90	258.11	272.01																					
MW2		11/30/08	13.71	258.30	272.01								-2	-2	0.082	1,010	142	90	-0.002		0.056	0.022	0.018	0.018	-0.5	2.4
MW2		12/31/08	13.56	258.45	272.01								-2	17	0.16	969	134	92	0.0024		8.74	-0.020	0.093	0.021	-0.5	1.7
MW2		3/12/09	11.56	260.45	272.01	7	16.4	6.20	1,326				-2	-2	0.14	947	156	81	-0.002		0.506	0.053	0.020	0.018	-0.5	1.9
MW2		6/17/09	13.40	258.61	272.01	80	17.6	6.02	1,505	1.63	-35.8	979	-2	-2	0.19	1,100	160	83		-0.050		0.053		0.028	0.027	1.8
MW2		9/22/09	13.63	258.38	272.01	3	18.35	6.07	1,359	2.41	29.8	883	-2	-2	0.1	1,100				0.020		0.190		0.036	-0.05	
MW2		12/15/09	12.56	259.45	272.01	5	18.10	6.83	1,187	1.82	21.0	772	-2	-2	0.17	870				-0.050		0.300		0.034	0.029	
MW2		3/24/10	12.06	259.95	272.01	6	16.35	6.14	1,317	3.91	79.4	856	-2	-2	0.16	920				-0.050		0.110		0.029	0.034	
MW2		6/23/10	13.23	258.78	272.01	5	16.61	6.09	1,383	4.43	108.2	899	900	240	0.26	1,100				-0.0075		0.087		0.029	-0.025	
MW2		9/24/10	13.43	258.58	272.01	5	18.03	5.92	1,478	1.93	49.9	961	> 1600	2	0.32	1,300				-0.0075		0.16		0.033	-0.025	
MW2		12/14/10	12.25	259.76	272.01	5	17.51	6.24	1,266	1.86	-63.3	823	> 1600		0.06	940				-0.0075		0.31		0.032	-0.025	
MW2		3/29/11	8.64	263.37	272.01	8	16.32	5.95	1,603	2.43	-169.4	1041	-2		0.58	1,100				-0.0075		0.029		0.037	-0.025	

Table 1

Historical Groundwater Quality Data
Castle Oaks Golf Course
City of Ione

Sample ID	MP Elevation	Date	Depth to Water	Ground-Water Elevation	Survey Mark Elevation	Volume Purged, gal.	Temp.	Field pH	Field EC	Dissolved Oxygen	Oxidation/ Reduction Potential	Field TDS	Total Coliform Bacteria (TCO)	Fecal Coliform Bacteria (FCO)	Nitrate (as N)[1]	Total Dissolved Solids (TDS)	Chloride	Total Sodium	Total Arsenic	Dissolved Arsenic	Total Iron	Dissolved Iron	Total Manganese	Dissolved Manganese	Ammonia	TOC
		Analysis Method:	*Probe*	*Calculated*	*Surveyed*	*Measured*	*Metered*	*Metered*	*Metered*	*Metered*	*Metered*		*SM 9221 B*	*SM 9221 E*	*EPA 300.0*	*SM2540C*	*EPA 300.0*	*EPA 200.8*	*EPA 206.2*	*EPA 206.3*	*EPA 200.7*	*EPA 8260*	*EPA 200.7*	*EPA 8260*	*SM4500*	*EPA 8260*
		Units:	*ft*	*ft. msl*	*ft. msl*	*gal*	*deg C*	*std units*	*umhs/cm*	*mg/L*	*Mv*	*mg/L*	*MPN/100ml*	*MPN/100ml*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*
		MCL (Secondary MCL where shaded)						*6.5-8.5*	*900*				*2.2*	*2.2*	*10*	*500*	*250*		*0.010*	*0.010*	*0.3*	*0.3*	*0.05*	*0.05*	*1.5*	
MW2		6/23/11	12.91	259.10	272.01	5	15.87	5.91	1,698	3.14	-49.4	1104	500		2.5	1,100				-0.0075		-0.0050		0.036	-0.025	
MW2		9/15/11	13.20	258.81	272.01	5	18.08	6.01	1,684	1.36	-113.1	1097	-2		0.25	1,200				-0.0075		-0.0050		0.033	-0.025	
MW2		12/13/11	13.09	258.92	272.01	5	18.21	5.72	1,349	1.80	3.9	877	40	-2	0.18	980				0.013		0.0170		0.034	-0.025	
MW2		3/22/12	11.17	260.84	272.01	6	16.00	5.74	1,215	2.92	84.8	790	17		0.27	810				0.0089		0.0220		0.027	-0.025	
MW2		6/27/12	13.65	258.36	272.01	5	16.27	5.90	1,459	5.00	66.2	948	4.0	-2	0.19	1,100				-0.0075		-0.0050		0.034	0.025	
MW2	continued	9/25/12	13.64	258.37	272.01	5	18.11	5.56	1,482	1.96	69.5	958	11		0.13	1,100				-0.0075		0.130		0.035	-0.025	
MW2	272.01	12/18/12	12.53	259.48	272.01	6	18.01	5.90	1,305	1.46	37.9	848	-2		0.094	830				-0.0075		0.120		0.033	-0.025	
MW2		3/11/13	13.20	258.81	272.01	6	16.32	5.91	1,416	2.93	147.7	921	-2		0.13	960				-0.0092		0.076		0.036	-0.017	
MW2		5/29/13	13.67	258.34	272.01	44	16.20	5.77	1,432	5.12	780.3	931	-2	Monitor Well Disinfection Event												
MW2		6/26/13	13.91	258.10	272.01	5	17.48	5.67	1,312	2.86	197.4	851	26		0.066	1,000				0.0096		0.430		0.031	0.11	
MW2		9/13/13	14.33	257.68	272.01	5	17.38	5.39	1,387	4.11	170.3	901	-2		0.12	1,000				-0.0092		0.290		0.024	-0.017	
MW2		12/12/13	14.44	257.57	272.01	5	18.17	5.93	1,219	2.17	58.8	793	-2		0.21	960				-0.0092		1.100		0.095	0.039	
MW2		3/5/14	12.40	259.61	272.01	5	16.39	5.93	1,226	3.31	173.1	797	-2		0.11	770				0.013		0.044		0.011	0.034	
MW2		6/16/14	13.57	258.44	272.01	7	16.87	5.84	1,356	1.58	47.8	882	-2		0.15	980				0.018		-0.030		0.0091	-0.033	
MW2		9/17/14	14.45	257.56	272.01	6	18.22	5.87	1,246	0.61	174.1	810	-2		0.14	820				-0.0092		0.059		0.019	-0.033	
MW2		12/19/14	11.10	260.91	272.01	6	18.34	6.01	953	1.01	186.6	620	-2		0.14	600				-0.0092		-0.030		0.011	-0.033	
MW2		3/23/15	12.67	259.34	272.01	5+	16.56	5.63	1,206	0.36	36.7	784	4.0		0.084	840				-0.00038		-0.030		0.014	-0.033	
MW2		6/10/15	12.72	259.29	272.01	5	16.69	5.49	1,210	0.29	101.0	786	-2		0.085	900				0.00059		-0.030		0.020	-0.025	
MW2		9/16/15	14.45	257.56	272.01	5	18.67	5.72	1,382	1.14	87.6	898	-2		0.11	920				0.00065		-0.030		0.022	-0.025	
MW2		12/15/15	12.44	259.57	272.01	6	18.47	5.90	1,331	2.04	45.2	865	-2		0.060	960				0.00052		-0.030		0.0044	-0.025	
MW2		3/29/16	11.23	260.78	272.01	6	16.27	5.71	1,461	0.36	126.7	950	170		0.34	940				-0.00038		-0.030		0.014	-0.025	
MW2		6/20/16	13.08	258.93	272.01	5	16.53	5.61	1,502	1.02	174.1	976	-1.8		0.30	1,000				-0.00038		-0.030		0.015	1.2	
MW2		9/7/16	13.68	258.33	272.01	5	18.17	5.61	1,532	0.42	271.0	996	-1.8		0.21	1,000				-0.00038		-0.030		0.023	0.033	
MW2		12/7/16	12.30	259.71	272.01	5	18.3	5.75	1,354	0.42	2.5	878	-1.8		0.21	960				0.00044		-0.030		0.033	-0.020	
MW2		3/8/17	10.08	261.93	272.01	7	15.9	5.72	1,611	1.67	200	1046	-1.8		1.3	1,100				-0.00038		-0.030		0.0070	-0.020	
MW2		6/15/17	12.97	259.04	272.01	6	16.2	5.60	2,016	0.60	180.2	1305	-1.8		5.9	1,500				0.00087		-0.030		0.019	0.083	
MW2		9/14/17	13.87	258.14	272.01	5	18.4	5.80	1,874	1.22	174.4	1216	-1.8		0.98	1,400				0.0010		-0.030		0.029	-0.020	
MW2		12/6/17	13.17	258.84	272.01	5	18.7	5.76	1,679	0.96	143.7	1092	13		0.65	1,100				0.00057		-0.030		0.034	0.057	
MW2		3/9/18	12.68	259.33	272.01	7	16.7	5.89	1,881	1.9	60	940	5		0.65	1,100				0.00057		-0.030		0.034	0.057	
MW2		6/15/18	13.23	258.78	272.01	6	16.2	5.77	1,854	2.3	213	930	650		0.46	1,200				-0.00038		-0.030		0.024	0.028	
MW2		9/17/18	13.81	258.20	272.01	5.5	18.0	5.95	1,942	4.7	228	970	79		0.097	1,200				0.00078		0.084		0.023	0.092	
MW2		12/17/18	13.39	258.62	272.01	6.0	17.5	6.07	1,500	3.2	229	750	7.8		0.12	920				0.00038		-0.030		0.024	0.10	
MW2		3/18/19	10.97	261.04	272.01	7	16.1	5.94	1,333	5.4	220	945	170		0.92	960				0.00043		-0.030		0.011	-0.050	
MW2		5/13/19	12.60	259.41	272.01	6	16.1	5.89	1,415	4.4	215	990	240		2.60	980				-0.00038		0.20		0.018	0.071	
MW2		9/16/19	13.75	258.26	272.01	5.5	18.6	5.78	1,675	3.6	48	1190	920		0.40	1,100				-0.00038		-0.030		0.023	0.10	
MW2		12/16/19	12.28	259.73	272.01	6.5	17.7	5.79	1,421	1.52	254	1010	540		0.41	960				0.00073		0.068		0.035	-0.067	
MW2		3/16/20	12.27	259.74	272.01	6.5	14.3	5.91	1,519	1.99	252	1075	8.2		0.24	1,100				-0.00038		0.075		0.032	-0.067	
MW2		6/16/20	13.65	258.36	272.01	6.5	16.5	5.88	1,500	1.35	252	1070	350		4.0	1,000				-0.00038		0.074		0.048	-0.067	
MW2		9/14/20	14.28	257.73	272.01	5.5	18.2	5.83	1,569	1.87	247	1110	280		0.26	1,100				-0.00038		-0.030		0.022	0.079	
MW2		12/15/20	13.29	258.72	272.01	6.0	16.9	5.96	1,527	2.79	239	1080	20		0.13	1,100				-0.00038		-0.030		0.022	0.039	
MW2		3/17/21	12.37	259.64	272.01	6.5	15.3	6.02	1,153	2.45	245	818	130		0.20	860				-0.00038		-0.030		0.034	0.070	
MW2		6/22/21	13.50	258.51	272.01	6.0	17.0	5.81	1,181	1.59	188	841	240		0.16	920				0.00057		-0.030		0.029	0.11	
MW2		9/21/21	14.94	257.07	272.01	5.0	18.3	5.61	1,253	2.08	239	891	170		0.51	880				-0.00038		-0.030		0.024	0.63	
MW2		12/14/21	11.43	260.58	272.01	7.0	17.3	5.84	669	4.43	274	472	350		0.47	680				0.00062		-0.030		0.0038	-0.067	
MW2		3/16/22	12.27	259.74	272.01	6.5	15.3	5.72	800	1.87	216	582	26		0.46	750				-0.00038		-0.030		0.0056	0.068	
MW3	264.86	11/30/01		255.00	264.86								-2													
MW3		3/20/02		256.00	264.86								-2		0.15	350									-0.5	
MW3		6/12/02		254.32	264.86								-2		-0.05	307									-0.5	
MW3		9/17/02		253.74	264.86								-2		-0.05	297									-0.5	
MW3		12/9/02		254.60	264.86								-2		0.2	289									-0.5	
MW3		3/28/03		254.99	264.86								-2		0.12	219									-0.5	
MW3		6/17/03		254.49	264.86								-2		0.17	280									-1	
MW3		10/1/03		253.67	264.86								-2	-2	0.06	278									-0.5	
MW3		12/31/03		255.28	264.86								-2	-2	0.07	358									-0.5	
MW3		3/31/04		255.60	264.86								-2	-2	0.15	290					15.8		0.18		-0.5	
MW3		6/30/04		254.12	264.86								-2	-2	0.07	283					22.8		0.13		-0.5	
MW3		9/30/04		253.45	264.86								-2	-2	-0.05	259					11.0		0.13		-0.5	
MW3		1/3/05		255.96	264.86								-2	-2	0.2	232			0.0089		8.1	3.07	0.12	0.120	-0.5	3.8
MW3		4/5/05		258.14	264.86								-2	-2	0.21	291			0.014		3.88	1.95	0.12	0.120	-0.5	
MW3		7/1/05		255.09	264.86								-2	-2	-0.05	292			0.017		6.22	1.21	0.16	0.130	-0.5	
MW3		10/21/05		254.36	264.86								> 2400	2	0.089	249			0.011		9.20	4.70	0.13	0.130	-0.5	6.1
MW3		3/8/06	7.54	257.32	264.86								-2	-2	0.11	290			0.0074		2.3	2.30	0.14	0.130	-0.5	2.8
MW3		5/24/06	8.84	256.02	264.86								-2	-2	-0.05	306			0.026		48.2	1.03	0.192	0.099	-0.5	4.4
MW3		6/30/06	10.24	254.62	264.86																					
MW3		8/23/06	10.93	253.93	264.86								-2	-2	-0.05	256	26	31	0.0074		5.8	4.20	0.13	0.130	-0.5	5.9
MW3		11/30/06	10.51	254.35	264.86																					
MW3		12/8/06			264.86								-2	-2	-0.05	294	26	32	0.0057		7.2	4.30	0.13	0.120	-0.5	5.7

Table 1

Historical Groundwater Quality Data
Castle Oaks Golf Course
City of Ione

Sample ID	MP Elevation	Date	Depth to Water	Ground-Water Elevation	Survey Mark Elevation	Volume Purged, gal.	Temp.	Field pH	Field EC	Dissolved Oxygen	Oxidation/ Reduction Potential	Field TDS	Total Coliform Bacteria (TCO)	Fecal Coliform Bacteria (FCO)	Nitrate (as N)[1]	Total Dissolved Solids (TDS)	Chloride	Total Sodium	Total Arsenic	Dissolved Arsenic	Total Iron	Dissolved Iron	Total Manganese	Dissolved Manganese	Ammonia	TOC
		Analysis Method:	*Probe*	*Calculated*	*Surveyed*	*Measured*	*Measured*	*Measured*	*Measured*	*Measured*	*Measured*		*SM 9221 B*	*SM 9221 E*	*EPA 300.0*	*SM2540C*	*EPA 300.0*	*EPA 200.8*	*EPA 206.2*	*EPA 206.5*	*EPA 200.7*	*EPA 8260*	*EPA 200.7*	*EPA 8260*	*SM4500*	*EPA 8260*
		Units:	*ft*	*ft. msl*	*ft. msl*	*gal*	*deg C*	*std units*	*umhs/cm*	*mg/L*	Mv	mg/L	*MPN/100ml*	*MPN/100ml*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*
	(Secondary MCL where shaded)	*MCL*						*6.5-8.5*	*900*				*2.2*	*2.2*	*10*	*500*	*250*		*0.010*	*0.010*	*0.3*	*0.3*	*0.05*	*0.05*	*1.5*	
MW3		2/27/07	8.17	256.69	264.86																					
MW3		03/08/07			264.86																					
MW3		5/31/07	10.53	254.33	264.86								2	-2	0.3	337	30	30.1	0.0077		4.7	2.17	0.15	0.148	-0.5	3.7
MW3		6/19/07			264.86																					
MW3		8/30/07	11.16	253.70	264.86								-2	-2	0.19	382	33	39	0.005		5.6	3.70	0.14	0.130	-0.5	2.9
MW3		9/27/07			264.86																					
MW3		11/30/07	10.29	254.57	264.86								-2	-2	0.13	321	35	34	0.011		4.4	4.00	0.14	0.130	-0.5	2.7
MW3		12/13/07			264.86																					
MW3		6/30/08	10.71	254.15	264.86								-2	-2	0.088	358			0.012		7.3	2.90	0.14	0.140	-0.5	2.3
MW3		9/30/08	11.35	253.51	264.86								-2	-2	0.1	287	35	32	0.020		24.00	3.00	0.16	0.110	-0.5	2.0
MW3	continued	11/30/08	10.90	253.96	264.86																					
MW3	264.86	12/31/08	10.23	254.63	264.86								-2	-2	0.29	424	36	31	0.012		11.40	2.94	0.14	0.118	-0.5	2.0
MW3		3/12/09	8.60	256.26	264.86	5	17.5	6.70	475				-2	-2	-0.05	320	36	33	0.0056		3.73	2.18	0.125	0.140	-0.5	1.3
MW3		6/17/09	10.39	254.47	264.86	40	18.3	6.34	482	2.78	-27.1	312	-2	-2	0.072	313	34	29	0.0056		5.340	2.15	0.128	0.129	-0.5	1.50
MW3		9/22/09	11.00	253.86	264.86	3	18.19	6.58	490	2.88	-2.7	318	-2	-2	0.21	350	31	30		-0.050		2.20		0.091	0.091	3.0
MW3		12/15/09	10.13	254.73	264.86	10	18.22	7.36	510	2.07	11.5	332	-2	-2	0.075	340				-0.050		2.80		0.120	0.095	
MW3		3/24/10	8.95	255.91	264.86	11	17.64	6.56	555	3.84	-6.1	363	-2	-2	0.078	350				-0.050		1.00		0.100	0.13	
MW3		6/23/10	10.03	254.83	264.86	10	17.79	6.53	543	3.78	63.7	352	2	-2	0.086	310				-0.050		3.10		0.120	0.1	
MW3		9/24/10	11.19	253.67	264.86	9	18.08	6.44	494	2.14	-24.1	321	-2	-2	0.096	320				-0.0075		3.20		0.110	0.073	
MW3		12/14/10	9.78	255.08	264.86	10	18.03	6.72	484	1.40	-28.8	315	-2	-2	0.038	350				0.0078		2.60		0.120	0.071	
MW3		3/29/11	4.23	260.63	264.86	13	17.47	6.41	505	2.88	-130.9	328	23		0.062	300				-0.0075		3.70		0.097	0.076	
MW3		6/23/11	9.53	255.33	264.86	11	16.63	6.34	523	1.51	-18.7	340	23		0.025	300				-0.0075		3.50		0.100	0.15	
MW3		9/15/11	10.62	254.24	264.86	10	17.39	6.60	515	1.11	-82	335	-2		0.13	310				0.0098		3.90		0.100	0.080	
MW3		12/13/11	10.50	254.36	264.86	10	17.71	5.98	539	1.35	-17.6	350	110		0.075	360				0.0083		3.80		0.099	0.11	
MW3		3/22/12	9.24	255.62	264.86	11	16.84	6.01	531	1.66	8.7	345	500	-2	0.11	500				0.013		3.50		0.100	0.070	
MW3		6/27/12	10.91	253.95	264.86	10	16.91	6.12	567	1.83	45.7	369	300		0.20	340				0.0076		2.60		0.100	0.088	
MW3		9/25/12	11.26	253.60	264.86	10	17.60	6.23	587	2.74	109.3	382	2.0	-2	0.025	380				-0.0075		3.10		0.100	0.066	
MW3		12/18/12	9.96	254.90	264.86	11	17.80	6.51	542	1.55	14.5	352	-2		0.10	390				-0.0075		1.40		0.110	0.066	
MW3		3/11/13	10.33	254.53	264.86	10	17.04	6.38	566	3.35	140.5	368	-2		0.050	300				-0.0075		3.00		0.095	0.088	
MW3		5/30/13	11.08	253.78	264.86	18	17.04	6.44	615	5.09	274.9	400	-2		0.12	380				-0.0092		1.20		0.12	0.036	
MW3		6/26/13	11.30	253.56	264.86	10	17.11	5.42	543	2.24	208.2	351	500	Monitor Well Disinfection Event												
MW3		9/13/13	11.82	253.04	264.86	9	17.60	6.07	600	2.99	90.7	390	300		0.050	400				-0.0092		0.77		0.13	0.14	
MW3		12/12/13	11.73	253.13	264.86	9	17.55	6.41	544	1.52	74.4	354	-2		0.13	410				-0.0092		0.41		0.13	0.019	
MW3		3/5/14	9.61	255.25	264.86	11	17.29	6.81	591	2.54	68.3	384	-2		0.040	410				-0.0092		0.97		0.17	0.10	
MW3		6/16/14	11.26	253.60	264.86	12	17.69	6.62	657	5.47	57.8	427	23		0.20	300				-0.0092		1.30		0.12	0.068	
MW3		9/17/14	12.61	252.25	264.86	9	17.87	6.44	596	0.09	2.7	387	-2		0.37	410				0.0150		-0.030		0.13	-0.033	
MW3		12/19/14	9.41	255.45	264.86	11	17.94	6.57	550	0.67	162.2	356	-2		0.18	400				-0.0092		0.32		0.15	-0.033	
MW3		3/23/15	9.79	255.07	264.86	8	17.28	6.35	606	0.08	41.5	394	-2		0.30	360				-0.0092		0.84		0.11	0.034	
MW3		6/10/15	10.45	254.41	264.86	10	17.08	6.37	571	0.17	71.3	371	-2		0.14	420				0.0027		0.76		0.098	-0.033	
MW3		9/16/15	12.62	252.24	264.86	9	17.79	6.44	597	1.27	-32.3	386	-2		0.24	440				0.0026		0.64		0.096	-0.025	
MW3		12/15/15	10.51	254.35	264.86	13	17.94	6.47	574	1.15	43.8	373	-2		0.11	410				0.0028		0.90		0.130	0.031	
MW3		3/29/16	8.40	256.46	264.86	11	17.11	6.41	566	0.12	63.5	368	14		0.044	430				0.0035		0.83		0.093	0.088	
MW3		6/20/16	10.67	254.19	264.86	13	16.90	6.25	599	0.96	28.3	389	-1.8		0.23	400				-0.00038		0.39		0.073	-0.025	
MW3		9/7/16	11.84	253.02	264.86	12	17.63	6.11	635	0.34	180.4	413	-1.8		0.046	440				0.0029		0.59		0.089	-0.025	
MW3		12/7/16	9.94	254.92	264.86	11	18.0	6.45	591	0.34	-118.3	384	-1.8		0.38	450				0.0020		0.37		0.120	0.029	
MW3		3/7/17	6.45	258.41	264.86	7	16.7	6.38	544	0.16	83.7	354	-1.8		0.17	400				0.0024		0.46		0.120	0.044	
MW3		6/15/17	9.78	255.08	264.86	20	16.2	6.40	612	2.91	86.1	401	-1.8		0.064	370				0.0021		0.53		0.079	-0.020	
MW3		9/14/17	11.44	253.42	264.86	10	17.3	6.35	630	1.44	28.6	410	-1.8		0.22	410				0.0026		0.680		0.084	0.14	
MW3		12/6/17	10.26	254.60	264.86	10	18.0	6.41	631	0.81	79.4	410	> 1600		0.051	410				0.0032		2.200		0.130	0.16	
MW3		3/9/18	9.92	254.94	264.86	9	17.4	6.58	797	1.4	36	399	540		0.40	440				0.0019		0.340		0.110	0.038	
MW3		6/15/18	10.32	254.54	264.86	9	16.8	6.52	893	2.0	118	447	10		0.69	480				0.0014		-0.030		0.086	0.059	
MW3		9/17/18	11.39	253.47	264.86	8.5	17.3	6.59	913	5.0	131	456	540		0.58	550				0.00074		-0.030		0.150	0.059	
MW3		12/17/18	10.45	254.41	264.86	9.0	18.0	6.51	830	1.4	124	420	49		0.60	490				0.0011		-0.030		0.17	0.12	
MW3		3/18/19	7.60	257.26	264.86	10.5	17.6	6.51	620	2.5	159	438	1600		0.54	500				-0.00038		-0.030		0.31	0.21	
MW3		5/13/19	9.60	255.26	264.86	9.5	17.4	6.50	740	1.9	126	438	12		0.60	440				0.00078		-0.030		0.11	0.062	
MW3		9/16/19	11.11	253.75	264.86	8.5	18.3	6.45	794	3.1	35	568	> 1600		0.55	480				0.0010		-0.030		0.13	0.094	
MW3		12/16/19	9.70	255.16	264.86	9.5	18.6	6.45	723	1.55	198	513	920		0.97	550				0.00088		0.34		0.17	0.11	
MW3		3/16/19	10.51	254.35	264.86	9.0	15.6	6.53	750	1.33	231	532	920		0.92	430				0.0011		0.13		0.14	-0.067	
MW3		6/16/20	11.02	253.84	264.86	8.5	18.0	6.53	774	1.13	219	550	170		1.2	490				-0.00038		0.065		0.14	0.069	
MW3		9/14/20	12.35	252.51	264.86	8.0	18.7	6.55	789	1.68	219	559	33		0.79	480				-0.00038		0.053		0.16	0.077	
MW3		12/15/20	12.99	251.87	264.86	8.5	16.5	6.65	804	2.95	218	570	22		1.10	510				-0.00038		-0.030		0.21	0.084	
MW3		3/17/21	9.86	255.00	264.86	9.0	17.2	6.72	745	2.07	224	535	27		1.7	490				-0.00038		-0.030		0.21	0.11	
MW3		6/22/21	11.41	253.45	264.86	8.5	18.0	6.53	729	1.89	183	512	21		1.4	470				-0.00038		-0.030		0.080	0.071	
MW3		9/21/21	12.50	252.36	264.86	8.0	18.5	6.36	753	1.84	224	540	-1.8		1.5	530				0.00066		-0.030		0.11	0.14	
MW3		12/14/21	9.48	255.38	264.86	9.5	17.6	6.60	455	2.67	269	323	33		1.8	530				-0.00038		-0.030		0.18	0.10	
MW3		3/16/22	10.05	254.81	264.86	9.0	17.2	6.47	524	1.59	211	370	920		0.85	460				0.0013		-0.030		0.13	0.17	
													220		0.75	480				0.00074		-0.030		0.083	0.088	

Table 1

Historical Groundwater Quality Data
Castle Oaks Golf Course
City of Ione

Sample ID	MP Elevation	Date	Depth to Water	Ground-Water Elevation	Survey Mark Elevation	Volume Purged, gal.	Temp.	Field pH	Field EC	Dissolved Oxygen	Oxidation/ Reduction Potential	Field TDS	Total Coliform Bacteria (TCO)	Fecal Coliform Bacteria (FCO)	Nitrate (as N)[1]	Total Dissolved Solids (TDS)	Chloride	Total Sodium	Total Arsenic	Dissolved Arsenic	Total Iron	Dissolved Iron	Total Manganese	Dissolved Manganese	Ammonia	TOC
		Analysis Method:	*Probe*	*Calculated*	*Surveyed*	*Measured*	*Metered*	*Metered*	*Metered*	*Metered*	*Metered*		*SM 9221 B*	*SM 9221 E*	*EPA 300.0*	*SM2540C*	*EPA 300.0*	*EPA 200.8*	*EPA 206.2*	*EPA 206.3*	*EPA 200.7*	*EPA 8260*	*EPA 200.7*	*EPA 8260*	*SM4500*	*EPA 8260*
		Units:	*ft*	*ft. msl*	*ft. msl*	*gal*	*deg C*	*std units*	*umhs/cm*	*mg/L*	*Mv*	*mg/L*	*MPN/100ml*	*MPN/100ml*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*
		MCL (Secondary MCL where shaded)						*6.5-8.5*	*900*				*2.2*	*2.2*	*10*	*500*	*250*		*0.010*	*0.010*	*0.3*	*0.3*	*0.05*	*0.05*	*1.5*	
P1	264.80	4/4/07	13.20	251.60	264.80																					
P1		5/18/07	13.54	251.26	264.80																					
P1		6/8/07	13.84	250.96	264.80																					
P1		7/6/07	14.25	250.55	264.80																					
P1		1/13/09	13.73	251.07	264.80																					
P1		3/11/09	12.47	252.33	264.80																					
P1		9/22/09	14.67	250.13	264.80																					
P1		12/15/09	13.43	251.37	264.80																					
P1		3/24/10	12.61	252.19	264.80																					
P1		6/23/10	13.34	251.46	264.80																					
P1		9/24/10	14.44	250.36	264.80																					
P1		12/13/10	13.09	251.71	264.80																					
P1		3/29/11	8.05	256.75	264.80																					
P1		6/22/11	13.04	251.76	264.80																					
P1		9/13/11	14.50	250.30	264.80																					
P1		12/12/11	13.91	250.89	264.80																					
P1		3/20/12	14.29	250.51	264.80																					
P1		6/25/12	14.29	250.51	264.80																					
P1		9/25/12	15.02	249.78	264.80																					
P1		12/17/12	13.74	251.06	264.80																					
P1		3/11/13	13.75	251.05	264.80																					
P1		6/26/13	14.87	249.93	264.80																					
P1		9/11/13	15.80	249.00	264.80																					
P1		12/10/13	15.88	248.92	264.80																					
P1		3/4/14	13.84	250.96	264.80																					
P1		6/16/14	15.04	249.76	264.80																					
P1		9/17/14	17.05	247.75	264.80																					
P1		12/17/14	14.24	250.56	264.80																					
P1		3/23/15	14.05	250.75	264.80																					
P1		6/10/15	14.56	250.24	264.80																					
P1		9/16/15	16.80	248.00	264.80																					
P1		12/15/15	14.90	249.90	264.80																					
P1		3/29/16	12.76	252.04	264.80																					
P1		6/20/16	14.38	250.42	264.80																					
P1		9/7/16	15.64	249.16	264.80																					
P1	continued	12/7/16	14.03	250.77	264.80																					
P1	264.80	3/8/17	10.37	254.43	264.80																					
P1		6/13/17	15.88	248.92	264.80																					
P1		9/12/17	15.56	249.24	264.80																					
P1		12/4/17	14.72	250.08	264.80																					
P1		3/9/18	14.04	250.76	264.80																					
P1		6/14/18	14.57	250.23	264.80																					
P1		9/17/18	15.80	249.00	264.80																					
P1		12/17/18	15.01	249.79	264.80																					
P1		3/18/19	11.74	253.06	264.80																					
P1		5/10/19	13.70	251.10	264.80																					
P1		9/15/19	15.59	249.21	264.80																					
P1		12/15/19	14.30	250.50	264.80																					
P1		3/15/19	14.23	250.57	264.80																					
P1		6/14/20	14.89	249.91	264.80																					
P1		9/14/20	16.16	248.64	264.80																					
P1		12/13/20	15.39	249.41	264.80																					
P1		3/16/21	14.38	250.42	264.80																					
P1		6/20/21	15.00	249.80	264.80																					
P1		9/21/21	DRY	nm	264.80																					
P1		12/14/21	15.27	249.53	264.80																					
P1		3/16/22	14.60	250.20	264.80																					

Table 1

Historical Groundwater Quality Data
Castle Oaks Golf Course
City of Ione

Sample ID	MP Elevation	Date	Depth to Water	Ground-Water Elevation	Survey Mark Elevation	Volume Purged, gal.	Temp.	Field pH	Field EC	Dissolved Oxygen	Oxidation/ Reduction Potential	Field TDS	Total Coliform Bacteria (TCO)	Fecal Coliform Bacteria (FCO)	Nitrate (as N)[1]	Total Dissolved Solids (TDS)	Chloride	Total Sodium	Total Arsenic	Dissolved Arsenic	Total Iron	Dissolved Iron	Total Manganese	Dissolved Manganese	Ammonia	TOC
		Analysis Method:	*Probe*	*Calculated*	*Surveyed*	*Measured*	*Metered*	*Metered*	*Metered*	*Metered*	*Metered*		*SM 9221 B*	*SM 9221 E*	*EPA 300.0*	*SM2540C*	*EPA 300.0*	*EPA 200.8*	*EPA 206.2*	*EPA 206.3*	*EPA 200.7*	*EPA 8260*	*EPA 200.7*	*EPA 8260*	*SM4500*	*EPA 8260*
		Units:	*ft*	*ft. msl*	*ft. msl*	*gal*	*deg C*	*std units*	*umhs/cm*	*mg/L*	*Mv*	*mg/L*	*MPN/100ml*	*MPN/100ml*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*
		MCL (Secondary MCL where shaded)						*6.5-8.5*	*900*				*2.2*	*2.2*	*10*	*500*	*250*		*0.010*	*0.010*	*0.3*	*0.3*	*0.05*	*0.05*	*1.5*	
P2	261.55	4/4/07	12.37	249.18	261.55																					
P2		5/18/07	12.80	248.75	261.55																					
P2		1/13/09	13.62	247.93	261.55																					
P2		3/11/09	12.08	249.47	261.55																					
P2		9/22/09	15.17	246.38	261.55																					
P2		12/15/09	13.66	247.89	261.55																					
P2		3/24/10	11.91	249.64	261.55																					
P2		6/23/10	12.65	248.90	261.55																					
P2		9/24/10	14.35	247.20	261.55																					
P2		12/13/10	12.72	248.83	261.55																					
P2		3/29/11	7.54	254.01	261.55																					
P2		6/22/11	12.39	249.16	261.55																					
P2		9/13/11	14.39	247.16	261.55																					
P2		12/12/11	13.40	248.15	261.55																					
P2		3/20/12	12.54	249.01	261.55																					
P2		6/25/12	13.71	247.84	261.55																					
P2		9/25/12	15.17	246.38	261.55																					
P2		12/17/12	13.51	248.04	261.55																					
P2		3/11/13	12.97	248.58	261.55																					
P2		6/26/13	14.78	246.77	261.55																					
P2		9/11/13	16.03	245.52	261.55																					
P2		12/10/13	16.11	245.44	261.55																					
P2		3/4/14	14.20	247.35	261.55																					
P2		6/16/14	14.98	246.57	261.55																					
P2		9/7/14	DRY	nm	261.55																					
P2		12/17/14	15.47	246.08	261.55																					
P2		3/23/15	13.43	248.12	261.55																					
P2		6/10/15	14.26	247.29	261.55																					
P2		9/16/15	16.89	244.66	261.55																					
P2		12/15/15	15.94	245.61	261.55																					
P2		3/29/16	12.09	249.46	261.55																					
P2		6/20/16	14.18	247.37	261.55																					
P2		9/7/16	16.32	245.23	261.55																					
P2		12/7/16	14.16	247.39	261.55																					
P2		3/8/17	7.78	253.77	261.55																					
P2		6/13/17	13.34	248.21	261.55																					
P2		9/12/17	16.09	245.46	261.55																					
P2		12/4/17	14.83	246.72	261.55																					
P2		3/9/18	13.58	247.97	261.55																					
P2		6/14/18	14.15	247.40	261.55																					
P2		9/17/18	16.55	245.00	261.55																					
P2		12/17/18	15.23	246.32	261.55																					
P2		3/18/19	10.58	250.97	261.55																					
P2		5/10/19	12.84	248.71	261.55																					
P2	continued	9/15/19	16.18	245.37	261.55																					
P2	261.55	12/15/19	14.60	246.95	261.55																					
P2		3/15/19	14.44	247.11	261.55																					
P2		6/14/20	14.88	246.67	261.55																					
P2		9/14/20	16.35	245.20	261.55																					
P2		12/13/20	13.62	247.93	261.55																					
P2		3/16/21	14.24	247.31	261.55																					
P2		6/20/21	16.00	245.55	261.55																					
P2		9/21/21	DRY	nm	261.55																					
P2		12/14/21	16.13	245.42	261.55																					
P2		3/16/22	14.28	247.27	261.55																					
P3	264.41	4/4/07	14.81	249.60	264.41																					
P3		5/18/07	15.18	249.23	264.41																					
P3		1/13/09	15.46	248.95	264.41																					
P3		3/11/09	14.28	250.13	264.41																					
P4	264.41	4/4/07	14.81	249.60	264.41																					
P4		5/18/07	15.18	249.23	264.41																					
P4		1/13/09	15.46	248.95	264.41																					
P4		3/11/09	14.28	250.13	264.41																					
P4		9/22/09	16.58	247.83	264.41																					
P4		12/15/09	15.04	249.37	264.41																					
P4		3/24/10	14.39	250.02	264.41																					

Table 1

Historical Groundwater Quality Data
Castle Oaks Golf Course
City of Ione

Sample ID	MP Elevation	Date	Depth to Water	Ground-Water Elevation	Survey Mark Elevation	Volume Purged, gal.	Temp.	Field pH	Field EC	Dissolved Oxygen	Oxidation/ Reduction Potential	Field TDS	Total Coliform Bacteria (TCO)	Fecal Coliform Bacteria (FCO)	Nitrate (as N)[1]	Total Dissolved Solids (TDS)	Chloride	Total Sodium	Total Arsenic	Dissolved Arsenic	Total Iron	Dissolved Iron	Total Manganese	Dissolved Manganese	Ammonia	TOC
		Analysis Method:	*Probe*	*Calculated*	*Surveyed*	*Measured*	*Measured*	*Measured*	*Measured*	*Measured*	*Measured*		*SM 9221 B*	*SM 9221 E*	*EPA 300.0*	*SM2540C*	*EPA 300.0*	*EPA 200.8*	*EPA 206.2*	*EPA 206.2*	*EPA 200.7*	*EPA 8260*	*EPA 200.7*	*EPA 8260*	*SM4500*	*EPA 8260*
		Units:	*ft*	*ft. msl*	*ft. msl*	*gal*	*deg C*	*std units*	*umhs/cm*	*mg/L*	*Mv*	*mg/L*	*MPN/100ml*	*MPN/100ml*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*
		MCL (Secondary MCL where shaded)						*6.5-8.5*	*900*				*2.2*	*2.2*	*10*	*500*	*250*		*0.010*	*0.010*	*0.3*	*0.3*	*0.05*	*0.05*	*1.5*	
P4		6/23/10	15.08	249.33	264.41																					
P4		9/24/10	16.11	248.30	264.41																					
P4		12/13/10	14.74	249.67	264.41																					
P4		3/29/11	10.68	253.73	264.41																					
P4		6/22/11	15.05	249.36	264.41																					
P4		9/13/11	16.40	248.01	264.41																					
P4		12/12/11	17.78	246.63	264.41																					
P4		3/20/12	14.53	249.88	264.41																					
P4		6/25/12	16.08	248.33	264.41																					
P4		9/25/12	16.88	247.53	264.41																					
P4		12/17/12	15.59	248.82	264.41																					
P4		3/11/13	15.50	248.91	264.41																					
P4		6/26/13	16.62	247.79	264.41																					
P4		9/11/13	17.59	246.82	264.41																					
P4		12/10/13	DRY	nm	264.41																					
P4		3/4/14	15.93	248.48	264.41																					
P4		6/16/14	16.79	247.62	264.41																					
P4		9/17/14	DRY	nm	264.41																					
P4		12/17/14	16.34	248.07	264.41																					
P4		3/23/15	15.89	248.52	264.41																					
P4		6/10/15	16.54	247.87	264.41																					
P4		9/16/15	DRY	nm	264.41																					
P4		12/15/15	16.89	247.52	264.41																					
P4		3/29/16	14.74	249.67	264.41																					
P4		6/20/16	16.43	247.98	264.41																					
P4		9/7/16	17.66	246.75	264.41																					
P4		12/7/16	16.02	248.39	264.41																					
P4		3/8/17	12.41	252.00	264.41																					
P4		6/13/17	16.22	248.19	264.41																					
P4		9/12/17	17.72	246.69	264.41																					
P4		12/4/17	16.96	247.45	264.41																					
P4		3/9/18	16.29	248.12	264.41																					
P4		6/14/18	15.97	248.44	264.41																					
P4		9/17/18	17.90	246.51	264.41																					
P4		12/17/18	17.29	247.12	264.41																					
P4		3/18/19	14.34	250.07	264.41																					
P4	continued	5/10/19	16.10	248.31	264.41																					
P4	264.41	9/15/19	DRY	nm	264.41																					
P4		12/15/19	16.70	247.71	264.41																					
P4		3/15/19	16.87	247.54	264.41																					
P4		6/14/20	17.33	247.08	264.41																					
P4		9/14/20	DRY	nm	264.41																					
P4		12/13/20	17.80	246.61	264.41																					
P4		3/16/21	16.81	247.60	264.41																					
P4		6/20/21	DRY	nm	264.41																					
P4		9/21/21	17.93	246.48	264.41																					
P4		12/14/21	17.68	246.73	264.41																					
P4		3/16/22	17.03	247.38	264.41																					

Notes:

Negative (-) values indicate less than the detection limit

P-3 TOC elevation is ground surface.

[1] The Nitrate-N tabulation column includes analyses results for Nitrate-N +Nitrite-N.

4th Quarter 2011 Field pH Qualified due to Instrument

Green shaded cells indicate questionable or qualified analyses.

Blue shaded cells indicate estimated value detected above minimum detection level but below practical quantitation limit.

Yellow shaded cells indicate estimated value detected above 2nd MCLs or Ag-use threshold

APPENDIX A

Field Forms and Calibration Records

Project City of Ione - Wastewater Treatment Facility and Castle Oaks Golf Course
Project Number 1st Quarter 2022
Date 3/15/2022
Field Technician C. Strong

Parameter	Instrument	Temp (°C)	Calibration Value	Pre--Calibration	Post Calibration
pH 4.0	Hanna Multi-Meter	20.5	4.0	4.05	4.0
pH 7.0	Hanna Multi-Meter	"	7.0	6.95	7.0
pH 10.0	Hanna Multi-Meter	"	10.01	9.90	10.00
EC	Hanna Multi-Meter	"	1413	1295	1413
ORP	Pinpoint Amer.Mar.	"	222	195	222
DO	Milwuakee MW600	"	100%	99.5	100.0%

Project
Project Number
Date
Field Technician

Parameter	Instrument	Temp (°C)	Calibration Value	Pre--Calibration	Post Calibration
pH 4.0	Hanna Multi-Meter				
pH 7.0	Hanna Multi-Meter				
pH 10.0	Hanna Multi-Meter				
EC	Hanna Multi-Meter				
ORP	Pinpoint Amer.Mar.				
DO	Milwuakee MW600				

Project
Project Number
Date
Field Technician

Parameter	Instrument	Temp (°C)	Calibration Value	Pre--Calibration	Post Calibration
pH 4.0	Hanna Multi-Meter				
pH 7.0	Hanna Multi-Meter				
pH 10.0	Hanna Multi-Meter				
EC	Hanna Multi-Meter				
ORP	Pinpoint Amer.Mar.				
DO	Milwuakee MW600				

Groundwater Monitoring Field Form

Project Name:	Castle Oaks Golf Course	**Well ID:**	Co - MW - 1
Sampling Event:	1st Quarter 2022 Sampling Event	**Date:**	3/15/2022
Samplers:	C. Strong	**Conditions:**	

EcoUrban Associates

Decontamination Method Triple Rinse / Dedicated bailer

Well Details Well Casing Diameter (”):

Calc'd gallons to be purged: 3.08 | Actual gallons purged 3.5

Multipiers: 0.75" = 0.0229; 2" = 0.163; 4" = 0.653; 6" = 1.03

×3 = 3.08

Depth to Water	Total Depth	Water Column	Well Volume	80% Recovry Lvl
10.92	17.21	6.29	1.03	12.18

Measuring Point: MOC / North Side Casing

Purge Data Purge Method:

Time	Vol. Purged	DTW	Temp	pH	EC (µS.cm)	TDS (mg/L)	DO (mg/L)	ORP (rel mV)	Turbidity	Comments (odor? Color?)
8:00	1	—	16.8	6.23	392	278	4.27	148	slight	
8:07	2	—	~~[illegible]~~	~~[illegible]~~	384	273	3.93	165	"	
8:15	3.5	~~[illegible]~~	17.8	6.59						
			17.6	6.44	377	273	4.01	177	"	
		10.97								
Total/Average										

Sampling Data

Depth to Water at time of sampling:	10.97	Samples kept Preserved on ice?	(Y)	N
Sample ID:	Co MW-1			Sample ID / Time
Sample Time:	8:15	Duplicate Samples Collected	Y	(N)
Sample Collection Method:		Rinsate Samples Collected	Y	(N)

Containers Used: (1) 100mL Na2SO4 (1) 1L Poly (1) 500mL Poly H2SO4
(1) 500mL Poly HNO3 - TO BE FILTERED BY LAB

Field Notes

Groundwater Monitoring Field Form

Project Name:	Castle Oaks Golf Course	**Well ID:**	Co MW-2
Sampling Event:	1st Quarter 2022 Sampling Event	**Date:**	3/15/2022
Samplers:	C. Strong	**Conditions:**	

EcoUrban Associates

Decontamination Method Triple Rinse / Dedicated bailer

Well Details Well Casing Diameter (");

Calc'd gallons to be purged: 6.09 | Actual gallons purged 6.5

Multipiers: 0.75" = 0.0229; 2" = 0.163: 4" = 0.653; 6" = 1.03

Depth to Water	Total Depth	Water Column	Well Volume	80% Recovry Lvl
12.27	24.83	12.46	2.03	

Measuring Point: MOC / North Side Casing

Purge Data Purge Method:

Time	Vol. Purged	DTW	Temp	pH	EC (µS.cm)	TDS (mg/L)	DO (mg/L)	ORP (rel mV)	Turbidity	Comments (odor? Color?)
		—	15.4	5.85	807	573	2.99	210	Slight	
	3	—	15.4	5.83	806	568	2.85	211	"	
8:47	6.5	12.80	15.3	5.72	800	582	1.87	216		
Total/Average										

Sampling Data

Depth to Water at time of sampling:

Sample ID: Co MW-2

Sample Time: 8:47

Sample Collection Method:

Samples kept Preserved on ice? Y N

Duplicate Samples Collected Y N

Rinsate Samples Collected Y N

Sample ID / Time

Containers Used: (1) 100mL Na2SO4 (1) 1L Poly (1) 500mL Poly H2SO4
(1) 500mL Poly HNO3 - TO BE FILTERED BY LAB

Field Notes

Groundwater Monitoring Field Form

Project Name:	Castle Oaks Golf Course	**Well ID:**	Co MW-3
Sampling Event	1st Quarter 2022 Sampling Event	**Date:**	3/15/2022
Samplers:	C. Strong	**Conditions:**	

EcoUrban Associates

Decontamination Method . Triple Rinse / Dedicated bailer

Well Details | Well Casing Diameter (''): 2

Calc'd gallons to be purged: 8.82 | Actual gallons purged 9.00

Multipliers: 0.75" = 0.0229; 2" = 0.163; 4" = 0.653; 6" = 1.03

Depth to Water	Total Depth	Water Column	Well Volume	80% Recovry Lvl
15.05	28.09	18.04	2.94	13.66

15 = 8.82

Measuring Point: MOC / North Side Casing

Purge Data | Purge Method:

Time	Vol. Purged	DTW	Temp	pH	EC (µS.cm)	TDS (mg/L)	DO (mg/L)	ORP (rel mV)	Turbidity	Comments (odor? Color?)
	1	—	15.9	6.42	554	393	2.60	212	slight	lt. brown
	4.5	—	17.0	6.44	542	387	1.93	211	moderate	gray color
9:32	9	13.00	17.2	6.47	524	370	1.59	211	"	" "
Total/Average										

Sampling Data

Depth to Water at time of sampling:	13.00	Samples kept Preserved on ice?	Y	N
Sample ID:	Co MW-3			Sample ID / Time
Sample Time:	9:32	Duplicate Samples Collected	Y	N
Sample Collection Method:		Rinsate Samples Collected	Y	N

Containers Used: (1) 100mL Na2SO4 (1) 1L Poly (1) 500mL Poly H2SO4
(1) 500mL Poly HNO3 - TO BE FILTERED BY LAB

Field Notes

APPENDIX B

LABORATORY ANALYTICAL REPORTS
CHAIN OF CUSTODY RECORD

Pace Analytical®
ENVIRONMENTAL SCIENCES

Date of Report: 03/28/2022

Christopher Strong

EcoUrban Associates
P.O. Box 411
Ione, CA 95640

Client Project:	[none]
BCL Project:	City of Ione Groundwater Monitoring COGC
BCL Work Order:	2205941
Invoice ID:	B444742

Enclosed are the results of analyses for samples received by the laboratory on 3/16/2022. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Ragen Schallock
Client Service Rep

Stuart Buttram
Operations Manager

Pace Analytical®
ENVIRONMENTAL SCIENCES

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Pace Analytical® ENVIRONMENTAL SCIENCES

BC LABORATORIES

4100 Atlas Court Bakersfield, Ca. 93308
(661) 327-4911 • FAX (661) 327-1918 • www.bclabs.com

Chain of Custody

* Requested Fields 22-05941 Back (22-05894) TEMP _____

Client/Company Name *: EcoUrban Associates
Report Attention *: Christopher Strong
Phone * #: (209) 487-4802 FAX * #:
E-mail: cstrong@ecourbandesigns.com

Address *: 531 W Marlette St. City *: Ione State *: CA Zip *: 95640

Project Information: City of Ione GW Monitoring COGC
PO #:
BCL Quote #:

How would you like your completed results sent? ☑ E-Mail ☐ Fax ☑ EDD ☐ Mail Only

Sampler Name Printed / Signature:
QC Request: ☐ STD ☐ Level II
Result Request ** Surcharge: ☑ STD ☐ 5 Day** ☐ 2 Day** ☐ 1 Day**

Carbon Copies: CDHS ☐ Fresno Co ☐ EPA ☐ Merced Co ☐ Tulare Co ☐ Other:

Regulatory Compliance: Electronic Data Transfer: Y ☐ N ☐ System No *

ANALYSIS REQUESTED 27 28

Matrix Types: RSW = Raw Surface Water, CFW = Chlorinated Finished Water, CWW = Chlorinated Waste Water, BW = Bottled Water, RGW = Raw Ground Water, FW = Finished Water, WW = Waste Water, SW = Storm Water, DW = Drinking Water, SO = Solid

Sample #	# Bottles	Sampled Date	Sampled Time	Sample Description / Location *	Matrix *	Comments / Station Code	TDS, Nitrate-N	NH3	Dissolved Fe, Mn, As	Total Coliform (555)					
-1		3/15/22	8:15	CO MW-1	RGW		✓	✓	✓	✓					
-2		↓	8:47	CO MW-2	RGW		✓	✓	✓	✓					
-3			9:32	CO MW-3	RGW		✓	✓	✓	✓					

CHK DIGITS: 1 2 3 4 5 6 7 8 9 0 — DIS TRIBUTION — SUB-OUT

SHORT HOLDING TIME: Cr^{+6} NO_2 NO3 OP SS DO Cl_2 BOD MBAS COT

3/15/22

Relinquished by: (Signature and Printed Name)	Company	Date	Time	Received by (Signature and Print Name)	Company
Chris Strong	EcoUrban	3/22	1801	Bill Benson / PACE LAB	PACE LABS
Bill Benson / Pace LABS	PACE LABS	3/15/22	1630	Sandra Manager	PACE 3-16-22 10:40

Received for Lab by: (Signature and Printed Name) Date Time

Payment Received at Delivery: Date: Amount: Check/Cash/Card PIA # Init.

Shipping Method: CAO UPS GSO WALK-IN SJVC FED EX OTHER

Cooling Method: WET BLUE NONE

Packing Material:

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. Pace Analytical assumes no responsibility for report alteration, separation, detachment or third party interpretation.

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ENVIRONMENTAL SCIENCES

Chain of Custody and Cooler Receipt Form for 2205941 Page 2 of 2

BC LABORATORIES INC. COOLER RECEIPT FORM Page 1 Of 1

Submission #: 22-05941 Bact

SHIPPING INFORMATION: Fed Ex ☐ UPS ☐ GSO / GLS ☒ Hand Delivery ☐ BC Lab Field Service ☐ Other ☐ (Specify)

SHIPPING CONTAINER: Ice Chest ☒ None ☐ Box ☐ Other ☐ (Specify)

FREE LIQUID: YES ☒ NO ☐ (W) / S

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals: Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☒ Comments:

All samples received? Yes ☑ No ☐ All samples containers intact? Yes ☑ No ☐ Description(s) match COC? Yes ☑ No ☐

COC Received ☒ YES ☐ NO

Emissivity: 0.97 Container: PE Thermometer ID: 337 Date/Time 3-16-22

Temperature: (A) 0.2 °C / (C) 0.1 °C Analyst Init SMH 1640

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	2	3	4	5	6	7	8	9	10
QT PE UNPRES	A	A	A							
4oz / 8oz / 16oz PE UNPRES MR	B	B	B							
2oz Cr+6										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS	C	C	C							
PT TOTAL SULFIDE										
2oz NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 1664B										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL	(A)	(A)	(A)							
40 ml VOA VIAL- 504										
QT EPA 508/608.3/8081A										
QT EPA 515.1/8151A										
QT EPA 525.2										
QT EPA 525.2 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548.1										
QT EPA 549.2										
QT EPA 8015M										
QT EPA 8270C										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER										

Comments:

Sample Numbering Completed By: PRC Date/Time: 3/16/22 1755

A = Actual / C = Corrected

Rev 22 04/13/21

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EcoUrban Associates P.O. Box 411 Ione, CA 95640	**Reported:** 03/28/2022 0:27 Project: City of Ione Groundwater Monitoring COGC Project Number: [none] Project Manager: Christopher Strong

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
2205941-01	**COC Number:**	—	**Receive Date:**	03/16/2022 10:40
	Project Number:	—	**Sampling Date:**	03/15/2022 08:15
	Sampling Location:	—	**Sample Depth:**	—
	Sampling Point:	CO MW-1	**Lab Matrix:**	Water
	Sampled By:	—	**Sample Type:**	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time	
2205941-02	**COC Number:**	—	**Receive Date:**	03/16/2022 10:40
	Project Number:	—	**Sampling Date:**	03/15/2022 08:47
	Sampling Location:	—	**Sample Depth:**	—
	Sampling Point:	CO MW-2	**Lab Matrix:**	Water
	Sampled By:	—	**Sample Type:**	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time	
2205941-03	**COC Number:**	—	**Receive Date:**	03/16/2022 10:40
	Project Number:	—	**Sampling Date:**	03/15/2022 09:32
	Sampling Location:	—	**Sample Depth:**	—
	Sampling Point:	CO MW-3	**Lab Matrix:**	Water
	Sampled By:	—	**Sample Type:**	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time	

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EcoUrban Associates P.O. Box 411 Ione, CA 95640	**Reported:** 03/28/2022 0:27 Project: City of Ione Groundwater Monitoring COGC Project Number: [none] Project Manager: Christopher Strong

Water Analysis (General Chemistry)

BCL Sample ID: 2205941-01 **Client Sample Name:** CO MW-1, 3/15/2022 8:15:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Nitrate as N	**7.3**	**mg/L**	**0.10**	**0.024**	**EPA-300.0**	ND		1
Total Dissolved Solids @ 180 C	**310**	**mg/L**	**20**	**10**	**EPA-160.1**	ND	**A10**	2
Ammonia as N	**0.074**	**mg/L**	**0.20**	**0.067**	**EPA-350.1**	ND	**J**	3

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-300.0	03/16/22 23:00	03/17/22 00:31	SAV	IC8	1	B134659	No Prep
2	EPA-160.1	03/18/22 15:30	03/18/22 15:30	CAD	MANUAL	2	B134814	No Prep
3	EPA-350.1	03/22/22 08:45	03/22/22 14:10	MC1	SC-2	1.043	B134995	No Prep

DCN = Data Continuation Number

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EcoUrban Associates P.O. Box 411 Ione, CA 95640	**Reported:** 03/28/2022 0:27 Project: City of Ione Groundwater Monitoring COGC Project Number: [none] Project Manager: Christopher Strong

Metals Analysis

BCL Sample ID: 2205941-01 **Client Sample Name:** CO MW-1, 3/15/2022 8:15:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Dissolved Arsenic	ND	mg/L	0.0020	0.00038	EPA-200.8	ND		1
Dissolved Iron	ND	mg/L	0.050	0.030	EPA-200.7	ND		2
Dissolved Manganese	**0.0010**	**mg/L**	**0.0010**	**0.000040**	**EPA-200.8**	ND		1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-200.8	03/18/22 06:00	03/18/22 12:14	KHS	PE-EL2	1	B134734	EPA 200.8 Dissolved
2	EPA-200.7	03/17/22 14:00	03/23/22 16:57	JRG	PE-OP4	1	B135043	EPA 200.7 Dissolved

DCN = Data Continuation Number

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EcoUrban Associates P.O. Box 411 Ione, CA 95640	**Reported:** 03/28/2022 0:27 Project: City of Ione Groundwater Monitoring COGC Project Number: [none] Project Manager: Christopher Strong

Water Analysis (General Chemistry)

BCL Sample ID: 2205941-02 | **Client Sample Name:** CO MW-2, 3/15/2022 8:47:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Nitrate as N	**0.46**	**mg/L**	**0.10**	**0.024**	**EPA-300.0**	ND		1
Total Dissolved Solids @ 180 C	**750**	**mg/L**	**33**	**17**	**EPA-160.1**	ND	**A10**	2
Ammonia as N	**0.068**	**mg/L**	**0.20**	**0.067**	**EPA-350.1**	ND	**J**	3

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-300.0	03/16/22 23:00	03/17/22 00:52	SAV	IC8	1	B134659	No Prep
2	EPA-160.1	03/18/22 15:30	03/18/22 15:30	CAD	MANUAL	3.333	B134814	No Prep
3	EPA-350.1	03/22/22 08:45	03/22/22 14:11	MC1	SC-2	1.051	B134995	No Prep

DCN = Data Continuation Number

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EcoUrban Associates P.O. Box 411 Ione, CA 95640	**Reported:** 03/28/2022 0:27 Project: City of Ione Groundwater Monitoring COGC Project Number: [none] Project Manager: Christopher Strong

Metals Analysis

BCL Sample ID: 2205941-02 | **Client Sample Name:** CO MW-2, 3/15/2022 8:47:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Dissolved Arsenic	ND	mg/L	0.0020	0.00038	EPA-200.8	ND		1
Dissolved Iron	ND	mg/L	0.050	0.030	EPA-200.7	ND		2
Dissolved Manganese	**0.0056**	**mg/L**	**0.0010**	**0.000040**	**EPA-200.8**	ND		1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-200.8	03/18/22 06:00	03/18/22 12:15	KHS	PE-EL2	1	B134734	EPA 200.8 Dissolved
2	EPA-200.7	03/17/22 14:02	03/22/22 20:03	JRG	PE-OP4	1	B135042	EPA 200.7 Dissolved

DCN = Data Continuation Number

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EcoUrban Associates P.O. Box 411 Ione, CA 95640	**Reported:** 03/28/2022 0:27 Project: City of Ione Groundwater Monitoring COGC Project Number: [none] Project Manager: Christopher Strong

Water Analysis (General Chemistry)

BCL Sample ID: 2205941-03 | **Client Sample Name:** CO MW-3, 3/15/2022 9:32:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Nitrate as N	**0.75**	**mg/L**	**0.10**	**0.024**	**EPA-300.0**	ND		1
Total Dissolved Solids @ 180 C	**480**	**mg/L**	**20**	**10**	**EPA-160.1**	ND	**A10**	2
Ammonia as N	**0.088**	**mg/L**	**0.20**	**0.067**	**EPA-350.1**	ND	**J**	3

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-300.0	03/16/22 23:00	03/17/22 01:12	SAV	IC8	1	B134659	No Prep
2	EPA-160.1	03/18/22 15:30	03/18/22 15:30	CAD	MANUAL	2	B134814	No Prep
3	EPA-350.1	03/22/22 08:45	03/22/22 14:12	MC1	SC-2	1.071	B134995	No Prep

DCN = Data Continuation Number

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EcoUrban Associates P.O. Box 411 Ione, CA 95640	**Reported:** 03/28/2022 0:27 Project: City of Ione Groundwater Monitoring COGC Project Number: [none] Project Manager: Christopher Strong

Metals Analysis

BCL Sample ID: 2205941-03 | **Client Sample Name:** CO MW-3, 3/15/2022 9:32:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Dissolved Arsenic	**0.00074**	**mg/L**	**0.0020**	**0.00038**	**EPA-200.8**	ND	J	1
Dissolved Iron	ND	mg/L	0.050	0.030	EPA-200.7	ND		2
Dissolved Manganese	**0.083**	**mg/L**	**0.0010**	**0.000040**	**EPA-200.8**	ND		1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-200.8	03/18/22 06:00	03/18/22 12:17	KHS	PE-EL2	1	B134734	EPA 200.8 Dissolved
2	EPA-200.7	03/17/22 14:05	03/22/22 20:05	JRG	PE-OP4	1	B135042	EPA 200.7 Dissolved

DCN = Data Continuation Number

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EcoUrban Associates P.O. Box 411 Ione, CA 95640	**Reported:** 03/28/2022 0:27 Project: City of Ione Groundwater Monitoring COGC Project Number: [none] Project Manager: Christopher Strong

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B134659						
Nitrate as N	B134659-BLK1	ND	mg/L	0.10	0.024	
QC Batch ID: B134814						
Total Dissolved Solids @ 180 C	B134814-BLK1	ND	mg/L	6.7	3.3	
QC Batch ID: B134995						
Ammonia as N	B134995-BLK1	ND	mg/L	0.20	0.067	

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EcoUrban Associates P.O. Box 411 Ione, CA 95640	**Reported:** 03/28/2022 0:27 Project: City of Ione Groundwater Monitoring COGC Project Number: [none] Project Manager: Christopher Strong

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: B134659										
Nitrate as N	B134659-BS1	LCS	4.9030	5.0000	mg/L	98.1		90 - 110		
QC Batch ID: B134814										
Total Dissolved Solids @ 180 C	B134814-BS1	LCS	600.00	586.00	mg/L	102		90 - 110		
QC Batch ID: B134995										
Ammonia as N	B134995-BS1	LCS	1.9243	2.0000	mg/L	96.2		90 - 110		

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EcoUrban Associates P.O. Box 411 Ione, CA 95640	**Reported:** 03/28/2022 0:27 Project: City of Ione Groundwater Monitoring COGC Project Number: [none] Project Manager: Christopher Strong

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: B134659	Used client sample: Y - Description: CO MW-1, 03/15/2022 08:15										
Nitrate as N	DUP	2205941-01	7.3150	7.3920		mg/L	1.0		10		
	MS	2205941-01	7.3150	12.454	5.0505	mg/L		102		80 - 120	
	MSD	2205941-01	7.3150	12.481	5.0505	mg/L	0.2	102	10	80 - 120	
QC Batch ID: B134814	Used client sample: N										
Total Dissolved Solids @ 180 C	DUP	2205789-01	11550	11500		mg/L	0.4		10		
QC Batch ID: B134995	Used client sample: N										
Ammonia as N	DUP	2205942-02	0.22082	0.22639		mg/L	2.5		10		
	MS	2205942-02	0.22082	2.5347	2.2945	mg/L		101		90 - 110	
	MSD	2205942-02	0.22082	2.5076	2.2945	mg/L	1.1	99.7	10	90 - 110	

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EcoUrban Associates P.O. Box 411 Ione, CA 95640	**Reported:** 03/28/2022 0:27 Project: City of Ione Groundwater Monitoring COGC Project Number: [none] Project Manager: Christopher Strong

Metals Analysis

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B134734						
Dissolved Arsenic	B134734-BLK1	ND	mg/L	0.0020	0.00038	
Dissolved Manganese	B134734-BLK1	ND	mg/L	0.0010	0.000040	
QC Batch ID: B135042						
Dissolved Iron	B135042-BLK1	ND	mg/L	0.050	0.030	
QC Batch ID: B135043						
Dissolved Iron	B135043-BLK1	ND	mg/L	0.050	0.030	

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EcoUrban Associates P.O. Box 411 Ione, CA 95640	**Reported:** 03/28/2022 0:27 Project: City of Ione Groundwater Monitoring COGC Project Number: [none] Project Manager: Christopher Strong

Metals Analysis

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: B134734										
Dissolved Arsenic	B134734-BS1	LCS	0.099545	0.10000	mg/L	99.5		85 - 115		
	B134734-BSD1	LCSD	0.098846	0.10000	mg/L	98.8	0.7	85 - 115	20	
Dissolved Manganese	B134734-BS1	LCS	0.10900	0.10000	mg/L	109		85 - 115		
	B134734-BSD1	LCSD	0.10757	0.10000	mg/L	108	1.3	85 - 115	20	
QC Batch ID: B135042										
Dissolved Iron	B135042-BS1	LCS	1.0230	1.0000	mg/L	102		85 - 115		
QC Batch ID: B135043										
Dissolved Iron	B135043-BS1	LCS	1.0540	1.0000	mg/L	105		85 - 115		

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EcoUrban Associates P.O. Box 411 Ione, CA 95640	**Reported:** 03/28/2022 0:27 Project: City of Ione Groundwater Monitoring COGC Project Number: [none] Project Manager: Christopher Strong

Metals Analysis

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: B134734	Used client sample: N										
Dissolved Arsenic	DUP	2205979-01	0.0079200	0.0090210		mg/L	13.0		20		
	MS	2205979-01	0.0079200	0.11644	0.10204	mg/L		106		70 - 130	
	MSD	2205979-01	0.0079200	0.11889	0.10204	mg/L	2.1	109	20	70 - 130	
Dissolved Manganese	DUP	2205979-01	0.00060200	0.00052400		mg/L	13.9		20		J
	MS	2205979-01	0.00060200	0.091046	0.10204	mg/L		88.6		70 - 130	
	MSD	2205979-01	0.00060200	0.093423	0.10204	mg/L	2.6	91.0	20	70 - 130	
QC Batch ID: B135042	Used client sample: N										
Dissolved Iron	DUP	2205831-01	ND	ND		mg/L			20		
	MS	2205831-01	ND	0.99780	1.0204	mg/L		97.8		85 - 115	
	MSD	2205831-01	ND	0.95726	1.0204	mg/L	4.1	93.8	20	85 - 115	
QC Batch ID: B135043	Used client sample: N										
Dissolved Iron	DUP	2205940-01	ND	ND		mg/L			20		
	MS	2205940-01	ND	1.0222	1.0204	mg/L		100		85 - 115	
	MSD	2205940-01	ND	1.0376	1.0204	mg/L	1.5	102	20	85 - 115	

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EcoUrban Associates P.O. Box 411 Ione, CA 95640	**Reported:** 03/28/2022 0:27 Project: City of Ione Groundwater Monitoring COGC Project Number: [none] Project Manager: Christopher Strong

Notes And Definitions

J	Estimated Value (CLP Flag)
MDL	Method Detection Limit
ND	Analyte Not Detected
PQL	Practical Quantitation Limit
A10	Detection and quantitation limits were raised due to matrix interference.

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Date of Report: 03/25/2022

Christopher Strong

EcoUrban Associates
P.O. Box 411
Ione, CA 95640

Client Project:	[none]
BCL Project:	City of Ione Groundwater Monitoring COGC
BCL Work Order:	2205894
Invoice ID:	B444698

Enclosed are the results of analyses for samples received by the laboratory on 3/16/2022. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Ragen Schallock
Client Service Rep

Stuart Buttram
Operations Manager

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BC LABORATORIES

4100 Atlas Court Bakersfield, Ca. 93308
(661) 327-4911 • FAX (661) 327-1918 • www.bclabs.com

Chain of Custody

* Required Fields 22-05941 Back (22-05894) TEMP

Client/Company Name *:	EcoUrban Associates
Report Attention *	Christopher Strong
Phone * #:	(209) 487-4802
FAX * #:	
E-mail:	cstrong@ecourbandesigns.com
Address *	531 W Marlette St.
City *	Ione
State *	CA
Zip *	95640
Project Information:	City of Ione GW Monitoring COGC
PO # / BCL Quote #	
How would you like your completed results sent?	☑ E-Mail ☐ Fax ☑ EDD ☐ Mail Only
Sampler Name Printed / Signature	
QC Request	☐ STD ☐ Level II
Result Request ** Surcharge	☑ STD ☐ 5 Day** ☐ 3 Day** ☐ 1 Day**
Carbon Copies:	CDHS ☐ Fresno Co ☐ EPA ☐ Merced Co ☐ Tulare Co ☐ Other:
Regulatory Compliance	Electronic Data Transfer: Y ☐ N ☐ System No. *

ANALYSIS REQUESTED 27 28

Matrix Types: RSW = Raw Surface Water CFW = Chorinated Finished Water CWW = Chorinated Waste Water BW = Bottled Water RGW = Raw Ground Water FW = Finished Water WW = Waste Water SW = Storm Water DW = Drinking Water SO = Solid

Sample #	# Bottles	Sampled Date	Sampled Time	Sample Description / Location *	Matrix *	Comments / Station Code	TDS, Nitrate-N	NH3	Dissolved Fe, Mn, As	Total Coliform (555)
-1		3/15/22	8:15	CO MW-1	RGW		✓	✓	✓	✓
-2		↓	8:47	CO MW-2	RGW		✓	✓	✓	✓
-3			9:32	CO MW-3	RGW		✓	✓	✓	✓

CHK BY INSTRUCTION
SUB-OUT

SHORT HOLDING TIME
Cr^{+6} NO2 NO3 OP SS
DO Cl_2 BOD MBAS COT

Relinquished by: (Signature and Printed Name)	Company	Date	Time	Received by (Signature and Print Name)	Company
Chris Strong	EcoUrban	3/15	1801	Bill Bean / PACE LAB	PACE LABS
Bill Bean / Pace LABS	PACE LABS	3/15/22	1630	Sandra Manager	PACE 3-16-22 10:40
Received for Lab by: (Signature and Printed Name)		Date	Time	Payment Received at Delivery: Date: Amount: Check/Cash/Card PSA # Init.	

Shipping Method: CAO UPS GSO WALK-IN SJVC FED EX OTHER

Cooling Method: WET BLUE NONE

Packing Material:

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Chain of Custody and Cooler Receipt Form for 2205894 Page 2 of 2

BC LABORATORIES INC. COOLER RECEIPT FORM Page 1 Of 1

Submission #: 22-05941 Bact

SHIPPING INFORMATION
Fed Ex ☐ UPS ☐ GSO / GLS ☒ Hand Delivery ☐
BC Lab Field Service ☐ Other ☐ (Specify)_____

SHIPPING CONTAINER
Ice Chest ☒ None ☐ Box ☐
Other ☐ (Specify)_____

FREE LIQUID
YES ☒ NO ☐
(W) / S

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☒ Comments:

All samples received? Yes ☑ No ☐ All samples containers intact? Yes ☑ No ☐ Description(s) match COC? Yes ☑ No ☐

COC Received ☒ YES ☐ NO

Emissivity: 0.97 Container: PE Thermometer ID: 337
Temperature: (A) 0.2 °C / (C) 0.1 °C
Date/Time 3-16-22
Analyst Init SMH 1640

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	2	3	4	5	6	7	8	9	10
QT PE UNPRES	A	A	A							
4oz / 8oz / 16oz PE UNPRES MR	B	B	B							
2oz Cr+6										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS	C	C	C							
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 1664B										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL	(A)	(A)	(A)							
40 ml VOA VIAL- 504										
QT EPA 508/608.3/608.1A										
QT EPA 515.1/8151A										
QT EPA 525.2										
QT EPA 525.2 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548.1										
QT EPA 549.2										
QT EPA 8015M										
QT EPA 8270C										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER										

Comments:
Sample Numbering Completed By: PRC Date/Time: 3/16/22 1755
A = Actual / C = Corrected

Rev 22 04/13/21
[S:\WP\Doc\Mary\Packet\LAB_DOCS\FORMS\BARWHEGrev 10]

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EcoUrban Associates P.O. Box 411 Ione, CA 95640	**Reported:** 03/25/2022 14:48 Project: City of Ione Groundwater Monitoring COGC Project Number: [none] Project Manager: Christopher Strong

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
2205894-01	**COC Number:**	---	**Receive Date:**	03/16/2022 10:40
	Project Number:	---	**Sampling Date:**	03/15/2022 08:15
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	CO-MW-1	**Lab Matrix:**	Water
	Sampled By:	Chris Strong	**Sample Type:**	Groundwater
			District ID:	
			System Number:	
			Station Number:	
			Sample Site: ROUTINE	
			Date Received:	
			Residual Chlorine, ppm:	
			Lab Temperature, C: 2.8	
2205894-02	**COC Number:**	---	**Receive Date:**	03/16/2022 10:40
	Project Number:	---	**Sampling Date:**	03/15/2022 08:47
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	CO-MW-2	**Lab Matrix:**	Water
	Sampled By:	Chris Strong	**Sample Type:**	Groundwater
			District ID:	
			System Number:	
			Station Number:	
			Sample Site: ROUTINE	
			Date Received:	
			Residual Chlorine, ppm:	
			Lab Temperature, C:	
2205894-03	**COC Number:**	---	**Receive Date:**	03/16/2022 10:40
	Project Number:	---	**Sampling Date:**	03/15/2022 09:32
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	CO-MW-3	**Lab Matrix:**	Water
	Sampled By:	Chris Strong	**Sample Type:**	Groundwater
			District ID:	
			System Number:	
			Station Number:	
			Sample Site: ROUTINE	
			Date Received:	
			Residual Chlorine, ppm:	
			Lab Temperature, C:	

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EcoUrban Associates P.O. Box 411 Ione, CA 95640	**Reported:** 03/25/2022 14:48 Project: City of Ione Groundwater Monitoring COGC Project Number: [none] Project Manager: Christopher Strong

2205894-01

Water Analysis (Bacteriological)

COC Number:	—	**District ID:**	
Project Number:	—	**System Number:**	
Sampling Location:	—	**Station Number:**	
Sampling Point:	CO-MW-1	**Sample Site:**	ROUTINE
Sampled By:	Chris Strong	**Residual Chlorine, ppm:**	
Receive Date:	03/16/2022 10:40	**Temperature, C:**	2.8
Sampling Date:	03/15/2022 08:15		
Sample Depth:	—		
Sample Matrix:	Water		

Multiple Tube Fermentation (5,5,5)

Constituent	Result	Units	Method	Analyst	Initial Dilution	Date Started	Date Completed	Lab Quals
Total Coliform, Presumptive Test	6	Positive Tubes	SM-9221B	FBV	1	03/16/2022 12:30	03/18/2022	
Total Coliform, Confirmed Test	6	Positive Tubes	SM-9221B	FBV	1	03/16/2022 12:30	03/18/2022	
Total Coliform, Density	17	MPN/100ml	SM-9221B	FBV	1	03/16/2022 12:30	03/18/2022	

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EcoUrban Associates P.O. Box 411 Ione, CA 95640	**Reported:** 03/25/2022 14:48 Project: City of Ione Groundwater Monitoring COGC Project Number: [none] Project Manager: Christopher Strong

2205894-02

Water Analysis (Bacteriological)

COC Number:	—	**District ID:**	
Project Number:	—	**System Number:**	
Sampling Location:	—	**Station Number:**	
Sampling Point:	CO-MW-2	**Sample Site:**	ROUTINE
Sampled By:	Chris Strong	**Residual Chlorine, ppm:**	
Receive Date:	03/16/2022 10:40	**Temperature, C:**	
Sampling Date:	03/15/2022 08:47		
Sample Depth:	—		
Sample Matrix:	Water		

Multiple Tube Fermentation (5,5,5)

Constituent	Result	Units	Method	Analyst	Initial Dilution	Date Started	Date Completed	Lab Quals
Total Coliform, Presumptive Test	7	Positive Tubes	SM-9221B	FBV	1	03/16/2022 12:30	03/18/2022	
Total Coliform, Confirmed Test	7	Positive Tubes	SM-9221B	FBV	1	03/16/2022 12:30	03/18/2022	
Total Coliform, Density	26	MPN/100ml	SM-9221B	FBV	1	03/16/2022 12:30	03/18/2022	

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EcoUrban Associates P.O. Box 411 Ione, CA 95640	**Reported:** 03/25/2022 14:48 Project: City of Ione Groundwater Monitoring COGC Project Number: [none] Project Manager: Christopher Strong

2205894-03

Water Analysis (Bacteriological)

COC Number:	—	**District ID:**	
Project Number:	—	**System Number:**	
Sampling Location:	—	**Station Number:**	
Sampling Point:	CO-MW-3	**Sample Site:**	ROUTINE
Sampled By:	Chris Strong	**Residual Chlorine, ppm:**	
Receive Date:	03/16/2022 10:40	**Temperature, C:**	
Sampling Date:	03/15/2022 09:32		
Sample Depth:	—		
Sample Matrix:	Water		

Multiple Tube Fermentation (5,5,5)

Constituent	Result	Units	Method	Analyst	Initial Dilution	Date Started	Date Completed	Lab Quals
Total Coliform, Presumptive Test	11	Positive Tubes	SM-9221B	FBV	1	03/16/2022 12:30	03/18/2022	
Total Coliform, Confirmed Test	11	Positive Tubes	SM-9221B	FBV	1	03/16/2022 12:30	03/18/2022	
Total Coliform, Density	220	MPN/100ml	SM-9221B	FBV	1	03/16/2022 12:30	03/18/2022	

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EcoUrban Associates P.O. Box 411 Ione, CA 95640	**Reported:** 03/25/2022 14:48 Project: City of Ione Groundwater Monitoring COGC Project Number: [none] Project Manager: Christopher Strong

Notes And Definitions

MPN	Most Probable Number

#5

Agenda Item

DATE: May 3, 2022

TO: Mayor Epperson and City Council

FROM: Michael Rock, Interim City Manager
Julie Millard, Management Analyst
Jon Alfred, Acting Police Chief

SUBJECT: Add one Part Time Administrative Analyst and one FTE Police Officer Trainee to the Salary Schedule

---

RECOMMENDED ACTION:

1. Add one (1) Part Time Administrative Analyst to the Salary Schedule.
2. Add one (1) FTE Police Officer Trainee to the Salary Schedule.

FISCAL IMPACT:

There is no fiscal impact associated with this item.

Part Time Administrative Analyst
Staff is proposing a single hourly rate of $27.50 for this position.

Police Officer Trainee
The fully loaded (including CalPERS and City provided health benefits) salary for this position while in the California Police Officers Standards & Training (P.O.S.T.) Academy is $34,331.96.

The City has funding available in the current budget year through salary savings from unfilled vacancies within the Police Department to cover the cost of both positions through fiscal year end should they be filled this fiscal year. Both positions will be included in the FY 2022 - 2023 Budget and will be updated on the Salary Schedule.

BACKGROUND:

Part Time Administrative Analyst
The Police Department (Department) has historically conducted its own background investigations for all new hires. Conducting background investigations is a time-consuming task that requires devoted staffing in order to process them in a timely manner. Due to current staffing issues the department is unable to manage this task in-

house. The proposed solution is to hire a part time person with current or former law enforcement background investigation experience to assist the Department on an as-needed basis as well as any other administrative tasks. This position would be for a maximum of 500 hours per fiscal year.

Upon approval of this position, Staff will post the recruitment and set up an interview panel.

Police Officer Trainee

Due to the statewide impacts of the pandemic, hiring candidates with exceptional experience has become increasingly difficult as the Department is competing with numerous other jurisdictions around the state for seasoned officers. Therefore, the Department is interested in creating a police officer trainee position that would allow the ability to hire an untrained candidate and sponsor him/her through the California Police Officers Standards & Training (P.O.S.T.) Academy. Assignment to the trainee classification would be temporary. Initially, it will be an entry-level, non-sworn training position while in the P.O.S.T. Academy and upon successful completion of the academy the individual will be sworn in as a full-time peace office for the City of Ione Police Department. The P.O.S.T. Academy is a six-month training course. The offer of employment and sponsorship will be contingent upon the candidate signing an employment agreement that includes a commitment to work for the City for a specified period of time on a prorated basis. If employment is terminated prior to the employment term, the employee will be required to repay all or a portion of the Academy costs.

Upon approval of this position in the Salary Schedule, Staff will begin drafting the employment contract and will bring that back to Council for approval at a later date.

ATTACHMENTS:

Part time Administrative Analyst Job Specification
Police Officer Trainee Job Specification

1 East Main St.
PO Box 398
Ione, CA 95640

Part Time Administrative Analyst

SALARY: $27.50 Hourly

DEPARTMENT: Police Department

DESCRIPTION:

SUMMARY DESCRIPTION

Under direction, performs a variety of para-professional and general professional, routine analytical, programmatic, and administrative duties in support of various administrative and programmatic operations and activities and in providing responsible staff support to a City department, office, and/or program area; coordinates assigned activities with other divisions, outside agencies, and the general public; and may supervise, train, and oversee the work of assigned administrative support staff.

DISTINGUISHING CHARACTERISTICS

The Administrative Analyst is a position providing advanced journey level para-professional administrative support within a department with responsibility for planning, coordinating, and implementing office support functions for an assigned department.

When utilized as a position providing advanced journey level para-professional administrative support, the classification is often utilized for positions that function as an office manager with responsibility for planning, coordinating, and implementing office support functions for an assigned department.

EXAMPLES OF DUTIES:

The following duties are typical for this classification. Incumbents may not perform all of the listed duties and/or may be required to perform additional or different duties from those set forth below to address business needs and changing business practices.

1. Perform a variety of programmatic, administrative, and routine staff and analytical duties requiring the application of administrative skills and specific program knowledge in support of a City department, division, program, or function; assume responsibility for specific program area duties; provide assistance in administrative and operating programs as assigned.

2. Conduct research; prepare, revise, and implement various administrative policies, procedures, rules, and regulations in accordance with sound organizational practices; develop and revise office forms and report formats.

3. Conduct administrative and/or management studies relating to the activities and operation of the assigned department, office, or program area; conduct the more routine surveys, research, and statistical analysis on administrative, fiscal, and operational issues; collect, compile, and analyze information from various sources on a variety of specialized topics related to programs administered by the position or by management staff; write reports that present and interpret data, identify alternatives, and make and justify recommendations.

4. Provide staff assistance to management staff; participate on and provide staff support to a variety of committees and boards; prepare and present staff reports and other correspondence as appropriate and necessary; relieve management staff of administrative work including investigating and answering complaints and providing assistance in resolving operational and administrative problems.

5. Participate in planning, coordinating, implementing, promoting, and overseeing assigned programs, projects, and initiatives; participate in the development and implementation of program goals, objectives, policies, procedures, and priorities; participate in the development and implementation of strategies for the achievement of these goals.

6. Participate in the identification, planning, development, and implementation of new and/or modified programs that would promote and enhance the mission, goals, and objectives of the City; perform the necessary research and analysis to justify the appropriateness of implementing the proposed program/project; prepare presentation materials and background documentation; participate in monitoring project success using appropriate tracking and feedback systems.

7. Assist in researching, negotiating, and monitoring assigned contracts and agreements with outside suppliers, service providers, leasing agents, and others; ensure work is performed in compliance with contracts and agreements.

8. Independently plan, administer, and coordinate administrative support functions and services for assigned department.

9. Plan, direct, coordinate, and review assigned activities and operations of the department including assigned administrative support, technical, and/or programmatic service areas; assign work activities, projects, and programs; review and evaluate work products, methods, and procedures; meet with staff to identify and resolve problems; recommend improvements in work flow, procedures, and use of equipment and forms; implement improvements as approved.

10. Participate in the selection, training, and evaluation of assigned administrative support personnel; provide or coordinate staff training; work with employees to correct deficiencies; recommend discipline and termination procedures.

11. Serve as primary contact and liaison for assigned functions and programs with other City

departments and staff, the general public, and outside agencies and organizations; negotiate and resolve sensitive and controversial issues; explain, justify, and defend programs, policies, and activities.

12. Coordinate assigned services and program/project activities with those of other City programs, functions, departments, and staff, boards, committees, and task forces as well as external agencies, groups, and the general public to ensure effective cooperation consistent with optimal efficiency, effectiveness, and economy; coordinate data, resources, and work products as necessary and upon request in support of a productive and positive working environment; participate in representing the assigned area to public and private groups, organizations, and other City groups.

13. Perform related duties as required.

TYPICAL QUALIFICATIONS:

KNOWLEDGE OF:

• Organization and operation of municipal government.

• Municipal government functions specifically related to program area/project assignments.

• Operational characteristics, services, and activities of assigned program.

• Work organization and office management principles and practices.

• Basic techniques and formulae for administrative, financial, and comparative analyses.

• Methods and techniques of effective technical, administrative, and financial record keeping, report preparation, and presentation.

• Principles and applications of critical thinking and analysis.

• Recent developments, research methods, current literature, and sources of information related to assigned programs and service areas.

• Basic principles and practices of public administration.

• Finance and accounting systems.

• Basic principles and practices of program development and administration.

• Basic principles and practices of budget preparation and administration and grant application and administration principles and practices.

• Principles of business letter writing.

• Federal, state, and local government organizations.

• Basic principles of supervision, training, and performance evaluation may be required for some positions

• Modern office procedures, methods, and equipment including computers and applicable software applications such as word processing, spreadsheets and databases.

• Methods and techniques used in customer service and public relations.

• English usage, spelling, grammar, and punctuation.

• Pertinent federal, state, and local laws, codes, and regulations.

ABILITY TO:

• Perform assigned duties using independent judgment and personal initiative.

• Oversee, direct, coordinate, and participate in the management of a comprehensive administrative support division or other assigned program area.

• Understand the organization and operation of the City and of outside agencies as necessary to assume assigned responsibilities.

• Understand, interpret, and apply administrative and departmental policies and procedures as well as pertinent laws, regulations, and ordinances.

• Select, train, and evaluate assigned staff may be required for some positions.

• Participate in the development and administration of program goals, objectives and procedures.

• Supervise, organize and review the work of lower level staff may be required for some positions.

• Participate in the preparation and administration of assigned budgets.

• Conduct basic to moderately complex research and compile, analyze, and interpret data.

• Prepare clear, accurate and concise tables, schedules, summaries and other materials in statistical and narrative form.

1 East Main St.
PO Box 398
Ione, CA 95640

• Develop skill to analyze problems, identify alternative solutions, project consequences of proposed actions and implement recommendations in support of goals.

• Plan, coordinate and conduct operational analyses, administrative studies, and special projects.

• Respond to requests and inquiries from the general public.

• Establish and maintain various data collection, record keeping, tracking, filing, and reporting systems.

• Manage multiple projects simultaneously.

• Plan and organize work to meet schedules and time lines.

• Operate and use modern office equipment including a computer and various software packages.

• Participate in planning, organizing, directing, coordinating, and evaluating assigned programs, projects, events, or technical area.

• Properly interpret and make recommendations in accordance with laws, regulations and policies.

• Work under steady pressure with frequent interruptions and a high degree of public contact by phone or in person.

• Exercise good judgment and maintain confidentiality in maintaining critical and sensitive information, records, and reports.

• Communicate clearly and concisely, both orally and in writing.

• Establish and maintain effective working relationships with those contacted in the course of work.

EDUCATION/TRAINING:

A Bachelor's degree from an accredited college or university with major course work in public administration, business administration, or a field related to area of assignment; or four years of experience in a municipal government setting with relatable experience to the City of Ione Administrative Assistant classification.

1 East Main St.
PO Box 398
Ione, CA 95640

EXPERIENCE:

Two years of responsible administrative and/or programmatic support experience related to assigned area. One year of research or analytical experience, preferably in public administration, is desirable.

PHYSICAL DEMANDS AND WORKING ENVIRONMENT

The conditions herein are representative of those that must be met by an employee to successfully perform the essential functions of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential job functions.

Environment: Work is performed primarily in a standard office setting; regular interaction with City employees and the general public.

Physical: Primary functions require sufficient physical ability and mobility to work in an office setting; to stand or sit for prolonged periods of time; to occasionally stoop, bend, kneel, crouch, reach, and twist; to lift, carry, push, and/or pull light to moderate amounts of weight; to operate office equipment requiring repetitive hand movement and fine coordination including use of a computer keyboard; and to verbally communicate to exchange information.

Ione Police Department
Police Officer Trainee

DEFINITION

Under immediate supervision, receives intensive academic instruction in law enforcement through a course of study necessary to complete the Basic Peace Officer Standards and Training (P.O.S T) Academy to become a Peace Officer.

DISTINGUISHING CHARACTERISTICS

The Police Officer Trainee is a recruiting level classification established to qualify candidates for duties as a Police Officer in the City of Ione Police Department. Incumbents of this class undergo a formal and comprehensive training program in a POST-certified academy. Incumbency in this class is limited to a period not to exceed twelve months and to those who have not completed the basic POST academy. Positions in this class are distinguished from Police Officer in that the Police Officer Trainee position is a classification that has no law enforcement powers. Upon satisfactory completion of the training and graduation from the academy, the trainee will be sworn in as a Police Officer with full law enforcement powers. Failure to complete training as prescribed and graduate from the academy will result in release from employment.

REPORTS TO

Receives immediate supervision from supervisors and Academy training staff.

EXAMPLES OF DUTIES

The following are the duties performed by employees in this classification. Each individual in the classification does not necessarily perform all the duties listed. However, employees may perform other related duties at an equivalent level. As a trainee, receive instructions and perform the following duties in a learning capacity:

- Identification and utilization of principles and techniques that promote community service, crime prevention, and appropriate behavior; enforcement and procedural aspects of criminal laws and the legal obligations inherent in enforcement of those laws.
- Proficient application of the rules of evidence; effective and professional communication through written, oral and mechanical media.
- Operation of an emergency vehicle which includes skid training, high-speed pursuit, defensive driving, and emergency driving, firearm training to learn good judgment and competency in the use of deadly force, ancillary police weaponry, and weaponless defense.
- Basic criminal investigation processes and techniques, including identifying, collecting, and preserving evidence, courtroom testimony, and witness interrogation.

- Establishing a basic knowledge of the patrol function consisting of patrolling a designated area of the City to preserve law and order and to prevent and discover the commission of crimes; effectively dealing with common vehicle code violations by learning to recognize the violations, locating the violations in the vehicle code and safely and professionally contacting the violator.
- Processing, confining, and caring for adult and juvenile prisoners in such a manner as to protect the prisoner's rights and welfare.
- Physical fitness and defensive techniques program; first aid, including cardio pulmonary resuscitation techniques; and other related course or programs as required.

ESSENTIAL QUALIFICATIONS

Knowledge of:

- Basic English grammar, composition, spelling, and punctuation; basic mathematics.
- Effective problem-solving techniques.
- Basic vehicle laws and regulations.
- Basic computer and modern office and automation technology.

Ability to:

- Acquire, through training, a knowledge of modern approved law enforcement principles, practices, and procedures; state laws, local ordinances, and first aid.
- Write clearly, accurately, concisely, legibly, and with correct English grammatical construction and spelling.
- Demonstrate an aptitude for law enforcement work.
- Understand and precisely carry out oral and written instruction: observe, assimilate. remember, record, and recall pertinent facts and details.
- Learn the standard broadcasting procedure of a radio system and other electronic equipment, including inside vehicles.
- Learn to apply selected knowledge (i.e., laws, statutes, court decisions, Office policies, criminal investigation theories, etc.) in collecting, organizing, and analyzing diverse information to decide upon an appropriate action in emergency and stressful situations; exercise good judgment and make sound decisions within a variety of circumstances.
- Plan and effectively present material to large and diverse groups of people.
- Work courteously and professionally with inmates, fellow officers, public officials, the general public, and others.
- Work with various cultural and ethnic groups tactfully and effectively.
- Establish and maintain effective working relationships with those contacted in the course of work.
- Develop skills in the use of firearms and other law enforcement tools.
- Undergo strenuous physical conditioning.
- Meet standards of adequate physical stature, endurance, and agility.

- Effectively represent the Police Department in contact with the public and other law enforcement agencies.

TRAINING AND EXPERIENCE

Any combination of training which would likely provide the required knowledge and experience is qualifying. A typical way to obtain the necessary knowledge and abilities would be:

Education

Graduation from high school or possess a General Education Development certificate (GED).