April 3, 2016

Andrew Altevogt
Assistant Executive Officer
Central Valley Regional Water Quality Control Board
Central Valley Region
11020 Sun Center Drive, Suite 200
Rancho Cordova, CA 95670

Attn: Charlene Herbst
Email: Charlene.herbst@waterboards.ca.gov
Phone: (916) 464-4724

Subject: **Item #2 and Item #3 Response and Data Evaluation**
13267 Order dated January 15, 2016, CMC Land Holdings LLC, 4207 West Linwood Avenue, Turlock, Stanislaus County, California

Dear Mr. Altevogt:

On behalf of CMC Land Holdings LLC, The Source Group Inc. (SGI) has prepared this Site Item #2 and Item #3 Response and Data Evaluation (Letter) for the dairy facility located at 4207 Linwood Avenue, Turlock, Stanislaus County, California (Site, Figure 1). This letter has been prepared in response to the January 15, 2016 Regional Water Quality Control Board (RWQCB) correspondence entitled *California Water Code Section 13267 Order – Directives for Submitting Documentation Pertaining Wastewater Discharge on 20 November 2015 and Mitigation Measures at CMC Landholdings LLC, 4207 W Linwood Avenue, Turlock, Stanislaus County* (Order, Attachment A). Specifically, this letter is intended to satisfy the following:

1) **Item #2 of the Order:** "Submit results of any additional sampling of the wells listed in your 8 December 2015 letter to Andrew Altevogt that has been conducted since 8 December 2015."

2) **Item #3 of the Order:** "Submit well driller's logs for the wells listed on your 8 December 2015 letter to Andrew Altevogt."

In addition to satisfying Items #2 and #3 of the Order, this Letter provides an evaluation of Site related data with respect to the wastewater discharge at the Site.

Item # 2 of the Order

On February 18 and March 31, 2016 RJ Avila of Turlock, CA collected groundwater samples from domestic wells located at residences bordering W Linwood Avenue between S Washington Road and the area immediately south of the Site as required by the RWQCB Cleanup and Abatement Order (CAO), dated December 2, 2015. Domestic well samples were submitted to GeoAnalytical Laboratories Inc. of Turlock, CA (Certified CA Laboratory) for analysis of nitrate as N, total dissolved solids (TDS), bacteria (E. coli and total coliform), general minerals (calcium, magnesium, sodium, bicarbonate, carbonate, sulfate, and chloride). Samples were collected as close to the wellhead as possible. Approximate domestic well locations are provided on Figure 2. Laboratory analytical data for each well is summarized in Table 1.

Certified laboratory analytical reports are included in Attachment B and field forms in Attachment C. Domestic well sample results are discussed in the Data Evaluation Section of this Letter.

Item #3 of the Order

In February 12, 2016 SGI correspondence entitled *Item #2 and Item #3 Response*, SGI provided results of a Department of Water Resources (DWR) well log search within 0.5 mile radius of the Site. The DWR provided a copy of the requested well logs, but the address associated with each log was redacted and stamped confidential, Water Code Sec. 13752. Based on information provided on the well logs, we were able to eliminate well logs that are not associated with nearby domestic wells. A copy of the well logs provided by the DWR that are likely associated with the nearby domestic wells are provided in Attachment D. A table summarizing the well construction and soil types encountered during drilling activities is provided as Table 2.

Beginning on February 11, 2016, SGI has contacted the DWR on multiple occasions (via email and phone) and formally requested a copy of well logs for each address individually in an effort to correlate well logs with specific addresses. To date, the DWR has been unresponsive to our multitude of requests. SGI believes that the DWR may be more responsive if the request for well logs was made directly from the RWQCB due to confidentiality concerns in recent years.

Data Evaluation

This Section provides an evaluation of existing Site data to assess potential impacts to domestic wells located in the vicinity of the Site as a result of the November 20, 2015 lagoon rupture at the Site. Specifically, this evaluation includes the following:

1. Background of release;
2. Description of the wellhead integrity of the nearby domestic wells;
3. Summary of the geology and domestic well construction;
4. Summary of lagoon data;
5. Summary of existing groundwater results in the vicinity of the Site; and
6. Septic System Evaluation

1) Background of Release

The Site currently houses about 400 large heifers and includes about 53 acres of cropland. The Site has two wastewater ponds (one settling basin on the north side and a larger wastewater lagoon on the south side). On November 20, 2015, the RWQCB staff received a Hazardous Materials Spill Report from the Governor's Office of Emergency Services stating that a levee of a dairy located near 4207 W. Linwood Avenue broke in the morning of November 20, 2015 for unknown reasons. Upon arrival, RWQCB staff noted that the wastewater lagoon located at the Site release wastewater via a broken berm on the south side of the lagoon. The wastewater then went into the corrals, fields, and into the residential areas across W. Linwood Avenue.

RWQCB staff noted the breach berm on the south side of the lagoon was being repaired. When staff arrived, the flow of wastewater from the lagoon had been stopped. It was estimated that about 3.7 million gallons of wastewater was discharged, however a significant volume of the wastewater was diverted to a canal or recovered via pumping. The RWQCB noted that the front and back yards of a number of houses, including the areas around domestic wells, were flooded with wastewater.

2) Description of the Wellhead Integrity of the Nearby Domestic Wells

During the domestic well sampling activities, RJ Avila inspected the surface completions of each of the nearby domestic wells. The inspection included a photo log of each well to demonstrate the integrity of the surface completion at each of the nearby domestic wells. A copy of the photo log is provided in Attachment D. A review of the photo logs indicate that domestic wells generally appears to have a proper surface completion. A surface completion is intended to prevent a well from acting like a direct conduit for a surface release to impact groundwater.

3) Summary of Geology and Domestic Well Construction

SGI procured a copy of well construction logs from the DWR for all wells located within 0.5 radius of the Site. A copy of the well logs provided by the DWR that are likely associated with the nearby domestic wells are provided in Attachment D. A table summarizing the well construction and soil types encountered during drilling activities is provided as Table 2. Total construction depth of identified wells ranged between 60 and 265 feet below ground surface (bgs). A review of the logs yielded various soil descriptions; however, it appears shallow soil geology consist primarily of sand from surface to 40 feet bgs, underlain by clay to 80 feet bgs, followed by an additional sand layer to a depth of 100 feet bgs. Well construction logs indicate the presence of a clay layer from approximately 40 feet bgs to 80 feet bgs, which would impede vertical migration of wastewater.

4) Summary of Lagoon Data

The RWQCB collected samples from the lagoon, and lagoon discharge (wastewater) on November 20, 2015. Lagoon and wastewater samples were submitted to the laboratory for analysis of nitrate as N, ammonia Nitrogen, electric conductivity, and phosphorus. The RWQCB collected samples from Well Water #8 (4406 W. Linwood), and Well #9 (4030 W. Linwood) on November 20, 2015 and the 4030 W. Linwood well again on November 24, 2015. Lagoon, wastewater, and well samples collected by the RWQCB were submitted to the laboratory for analysis of nitrate as N, ammonia Nitrogen, electric conductivity, and phosphorus. Select samples were also analyzed for total kjeldahl nitrogen (TKN), soluble salts, and potassium. A summary of laboratory analytical results is included in Table 1 and a comparison of nitrate as N and ammonia Nitrogen results is provided in the table below.

Sample Type	Sample Address	Sample Date	Nitrate as N (mg/L)	Ammonia as Nitrogen (mg/L)
Lagoon / Wastewater	#1 Lagoon	11/20/15	ND<1.3	104
	#2 TID Canal@ Lagoon	11/20/15	ND<1.3	115
	#7 Wastewater	11/20/15	ND<1.3	99.5
	Lagoon Discharge Water at 4030 West Linwood	11/20/15	Not Analyzed	121
	Lagoon Discharge Water at 4408 West Linwood	11/20/15	Not Analyzed	110
Wellwater	#8 Wellwater (4406 W. Linwood)	11/20/15	13	ND<0.1
	#9 Wellwater (4030 W. Linwood)	11/20/15	21.3	ND<0.1
		11/24/15	Not Analyzed	ND

As illustrated in the above table, ammonia as nitrogen was detected in samples collected from lagoon / wastewater samples at concentrations of at or above 100 milligrams per liter (mg/L) and not detected in samples collected from nearby domestic wells. The data demonstrates that wastewater likely did not impact drinking water at these locations the day of the release and four days after the release. Nitrate as N was not detected above the laboratory reporting limit in samples collected from the lagoon/wastewater. However, Nitrate as N was detected in samples collected from nearby drinking water wells at concentrations of 13 mg/L and 21.3 mg/L, which is above the maximum cleanup level (MCL) for groundwater of 10 mg/L. The data indicates nitrate as N was present in these wells at concentrations above the MCL prior to the release at the Site.

5) Summary of Pre-Existing Groundwater Results in the Vicinity of the Site

To further evaluate potential impacts to groundwater as a result of the release of wastewater at the Site and establish a baseline or background level in groundwater, SGI procured data from the several nearby domestic wells that was collected prior to the release and data collected from nearby drinking water wells and monitoring wells.

Background Data: SGI procured domestic, and Turlock Irrigation District (TID) monitoring well data in the vicinity of the Site to evaluate background/baseline groundwater conditions in the vicinity of the Site. A summary of background data is presented on Table 3 and background sample locations are illustrated on Figure 3. The following table provides a

comparison of the maximum, average, and mean concentrations of Nitrate as N and TDS in surrounding wells and in samples collected from nearby domestic wells post-release.

Analtye	Sample Location	Maximum	Average	Median
Nitrate as N (mg/L)	Background	43.0	21.2	21.1
	Nearby Domestic Wells	34.8	14.1	14.5
TDS (mg/L)	Background	1,309	745	718
	Nearby Domestic Wells	2,370	702	756

A review of the background data and the above table indicates that the maximum, average, and median concentrations of nitrate as N and TDS in the nearby domestic wells do not appear to be significantly different from background concentrations in the vicinity of the Site. As indicated on Figure 3, the Site is located in an area of high agricultural and dairy use. SGI identified over 40 dairies and dozens of actively farmed fields within an approximate 3-mile radius of the Site which have likely contributed to the high background concentrations of nitrate as N and TDS concentrations observed in groundwater in the vicinity of the Site. The background levels summarized above are well above the MCL for Nitrate as N of 10 mg/L and the Secondary MCL for TDS of 500 mg/L.

Pre- and Post Release Domestic Well Sample Results: SGI was able to obtain a copy of the laboratory analytical results of samples collected from the domestic wells located at 4030 West Linwood Avenue and 4406 West Linwood Avenue in July of 2012 and June of 2011, respectively. A copy of the laboratory analytical results is provided in Attachment B and results are summarized in Table 1. A comparison of the data collected from these two nearby domestic wells prior to and post the waste water release is provided below:

Sample Address	Sample Date	Pre or Post Release	Nitrate as N (mg/L)
4030 West Linwood Ave	7/30/12	Pre-Release	34.8
	11/20/15	Post-Release (Day of Release)	21.3
	12/4/15	Post-Release	24.6
	1/20/16	Post-Release	26.9
	2/18/16	Post-Release	28.1
4406 West Linwood Ave	6/14/11	Pre-Release	8.13
	11/20/15	Post-Release (Day of Release)	13
	12/4/15	Post-Release	14.4
	1/20/16	Post-Release	17.3
	2/18/16	Post-Release	14.3

The above data indicates that Nitrate as N was detected at concentrations ranging from 8.13 mg/L to 34.8 mg/L in samples collected from domestic wells prior to the release and at concentrations ranging from 13 mg/L to 21.3 mg/L in samples collected the day of the release. These pre-release levels are generally above the MCL for Nitrate as N of 10 mg/L. Concentrations of Nitrate as N in samples collected from the 4030 W. Linwood avenue well post release are less than the concentrations reported pre-release. Concentrations of Nitrate as N in samples collected from the 4406 West Linwood Ave. well on the day of the release are not significantly different from concentrations reported post release. The Nitrate as N data presented above above does not indicate the discharged waste water impacted the drinking water at these addresses.

6) Septic System Evaluation:

Sewer and water services are not provided to the residential properties on W. Linwood Ave. by the City of Turlock. The nearest sewer and water utilities are approximately 1 mile from the Site. SGI assumes that the houses on Linwood Avenue with domestic wells also have a septic system on their property.

Septic systems typically consist of a buried tank for settling and anaerobic decomposition with overflow to a leach field buried in a soil layer. Baffles in the tank prevent passage of solids to the leach field under proper operating conditions. The leach field consists of buried perforated pipe or open-bottomed chambers; in either case, contact with soil occurs at approximately 1 meter below the soil surface. A layer of slime is created at the soil contact surface.

The Center of Watershed Sciences, University of California, Davis, prepared a Technical Report 2 entitled *Assessing Nitrate in California's Drinking Water, dated July 2012 (Harter Technical Report 2), which included an evaluation* of nitrogen loading from septic systems. Excerpts from the Harter Technical Report 2 is proved below.

"Anaerobic conditions in the tank promote ammonification but not nitrification, therefore nitrogen in septic tank effluent to the leach field is dominated by ammonium (70-90%), with the remainder in organic form (Lance 1972; Nilsson 1990; Gold and Sims 2000, reviewed in Siegrist et al. 2000; Bunnell et al. 1999, reviewed in Eliasson 2002; Nizeyimana et al. 1996, Hantzsche

and Finnemore 1992). Tank effluent ammonium ranges from 20 – 200 mg/L as nitrogen.Tchobanoglous et al. (2003) estimate that the daily nitrogen excretion per adult is 13.3 grams. Approximately 15% of that nitrogen is assumed to either stay in the septic tank or volatilizes from the tank or from the septic leachfield (see above, Siegrist et al. 2000). Thus, long-term average groundwater nitrate loading via septic systems is conservatively estimated to be 11.3 grams of nitrate-nitrogen per person per day (4.125 kg N per person per year)."

"However, locally, septic systems are likely to contribute significantly to well water nitrate…",

Based on the results of the nitrogen loading from septic systems study detailed in the *Harter Technical Report 2*, the septic systems at the private residences along W. Linwood Avenue have likely contributed significantly to nitrate levels observed in nearby well water.

Conclusions and Findings

Existing data as summarized above does not indicate the domestic wells located on W. Linwood Ave. have been negatively impacted by the wastewater discharge at the Site. Our finding is supported by the following:

1) The private well surface completions appear to be in good integrity. A proper surface completion would prevent the well from acting like a direct conduit for surface wastewater to impact groundwater.
2) Well construction logs indicate the presence of a clay layer from approximately 40 feet bgs to 80 feet bgs, which would impede vertical migration of wastewater.
3) Ammonia as nitrogen was detected in samples collected from lagoon/wastewater samples at concentrations of at or above 100 mg/L and not detected in samples collected from nearby domestic wells. The data demonstrates that wastewater likely did not impact drinking water at these locations the day of the release and four days after the release.
4) Nitrate as N was not detected above the laboratory reporting limit in samples collected from the lagoon/wastewater. However, Nitrate as N was detected in samples collected from nearby drinking water wells at concentrations of 13 mg/L and 21.3 mg/L, which is above the MCL for groundwater of 10 mg/L. The data indicates nitrate as N was present in these wells at concentrations above the MCL prior to the release at the Site.
5) The background levels are well above the MCL for Nitrate as N of 10 mg/L. A review of the background data illustrates that the average, and median concentrations of nitrate as N in the nearby domestic wells are below the background concentrations in the vicinity of the Site.
6) Nitrate as N was detected at concentrations ranging from 8.13 mg/L to 34.8 mg/L in samples collected from domestic wells prior to the release and at concentrations ranging from 13 mg/L to 21.3 mg/L in samples collected the day of the release. These levels are generally above the MCL for Nitrate as N of 10 mg/L.

Concentrations of Nitrate as N in samples collected from the 4030 W. Linwood Avenue well post-release are less than the concentrations reported pre-release. Concentrations of Nitrate as N in samples collected from the 4406 W. Linwood Avenue well on the day of the release are not significantly different from concentrations reported post release.

7) Based on the results of the nitrogen loading from septic systems study detailed in the *Harter Technical Report 2*, the septic systems at the private residences along W. Linwood Avenue have historically and will continue to contribute significantly to nitrate levels observed in nearby well water.

Certification:

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.

Sincerely,

The Source Group, Inc.

PROFESSIONAL GEOLOGIST
JING HEISLER
No. 666
CERTIFIED HYDROGEOLOGIST
Exp. 2/28/17
STATE OF CALIFORNIA

Greg McIver
Principal Scientist

Jing Heisler, PG, CHG
Senior Geologist

Attachments:

Figure 1: Site Location Map
Figure 2: Site Plan and Chemical Concentration
Figure 3: Regional Area Map

Table 1: Wastewater Discharge Related Analytical Results
Table 2: Domestic Well Log Summary
Table 3: Regional Nitrate Concentration Map

Attachment A: RWQCB Correspondence
Attachment B: Laboratory Analytical Reports
Attachment C: Field Forms
Attachment D: Domestic Well Photo Log

References:

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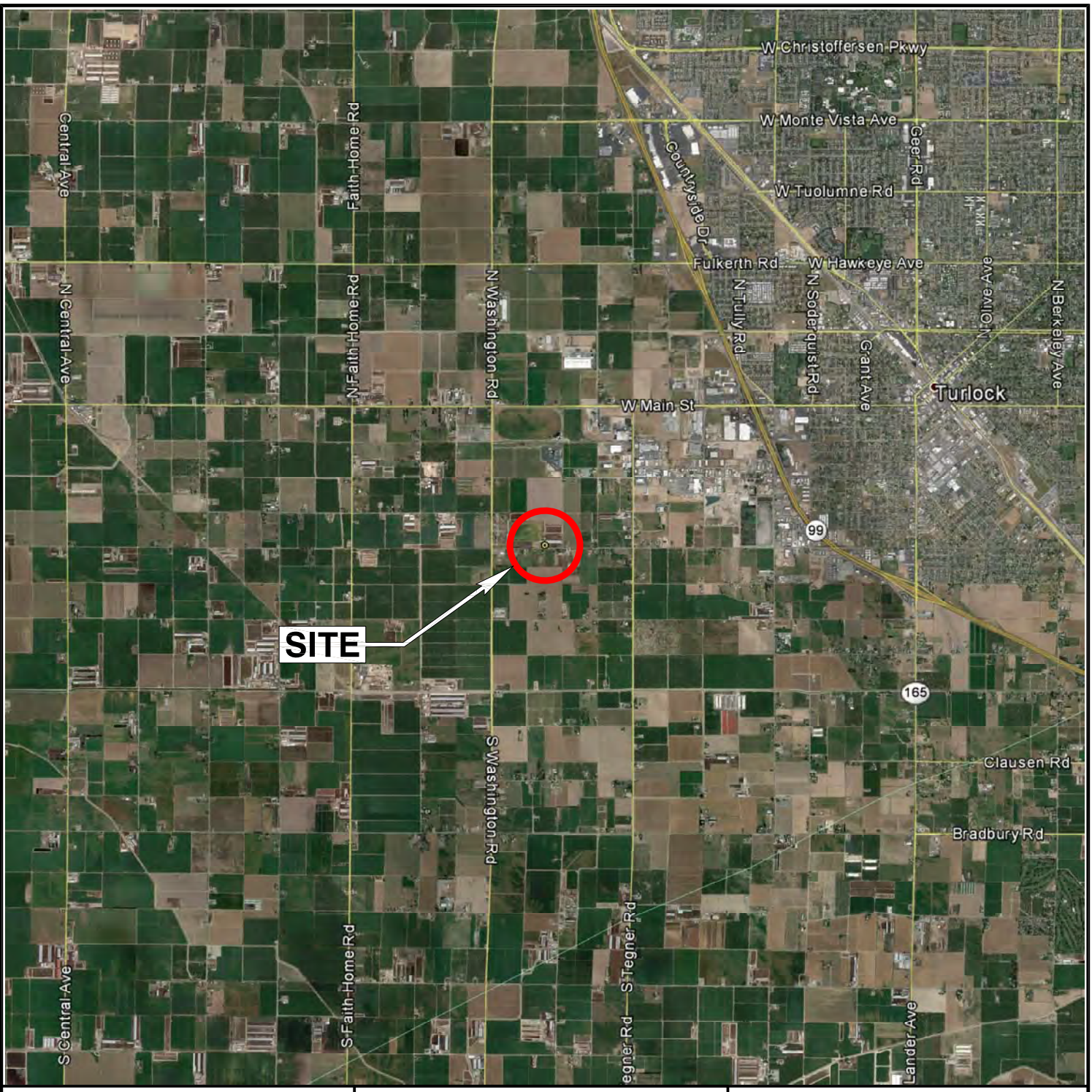
FIGURES

C:\Drawing Files\The Source Group\CMC Landholdings 06-CMC-001\Fig 1. Site Location Map - 04/01/2016



LEGEND

Site Location

Map Source:
Google Earth Image
Approximate Center of Image At
37° 28' 42.62" N 120° 53' 48.21" W
Imagery Date - 03/29/2015

REFERENCE LOCATION

SITE LOCATION MAP

SOUTH WASHINGTON ROAD AND
WEST LINWOOD AVENUE
TURLOCK, CALIFORNIA

PROJECT NO.	DATE	DRAWN BY:	APP. BY:
06-CMC-001	04/01/2016	CM	GM

0 1 2
APPROXIMATE SCALE IN MILES

SGI environmental
APEX
944 McCOURTNEY ROAD SUITE H
GRASS VALLEY, CALIFORNIA 95949

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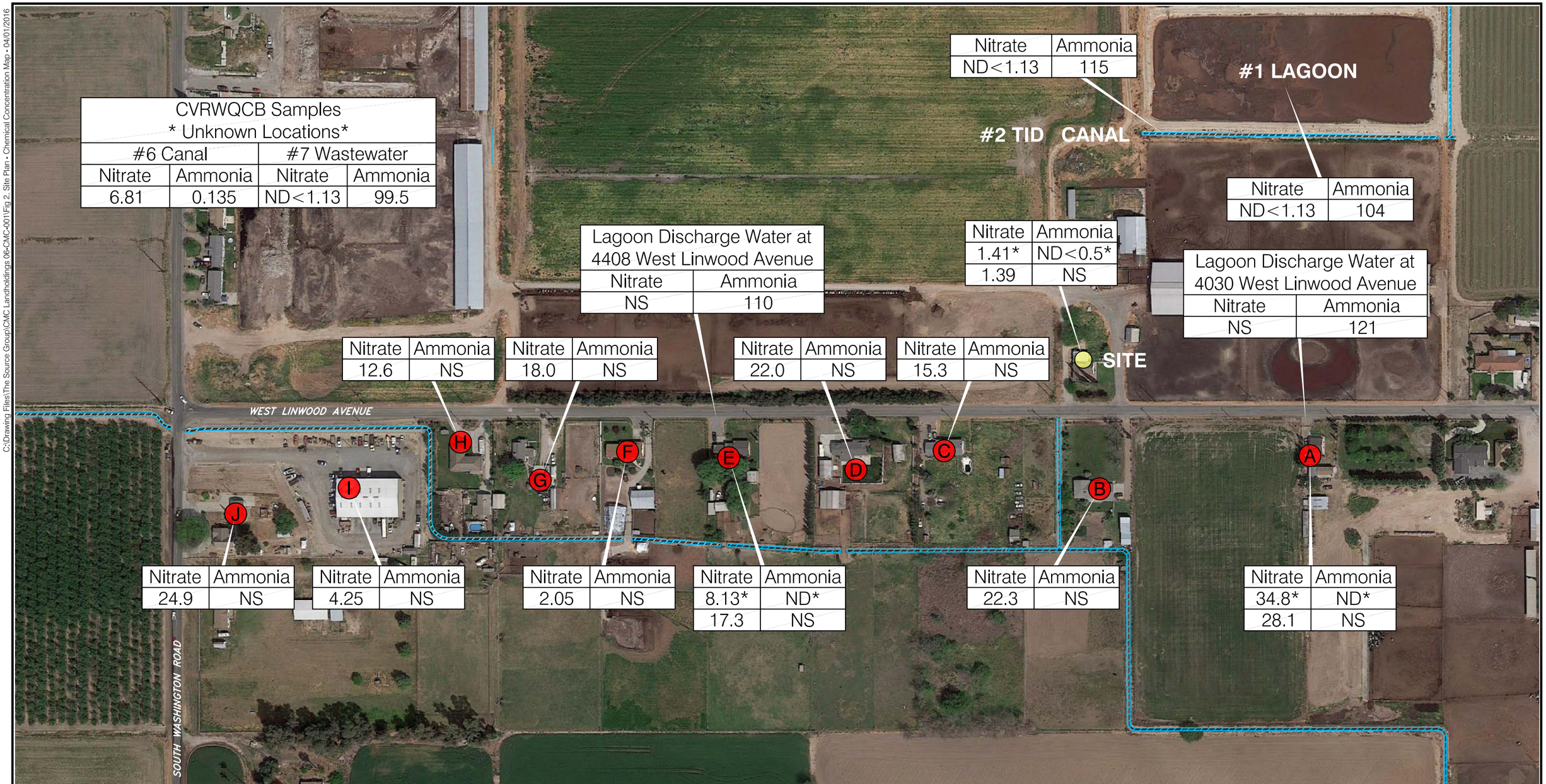
FIGURE
1

Exhibit 12



C:\Drawing Files\The Source Group\CMC Landholdings 06-CMC-001\Fig 2. Site Plan - Chemical Concentration Map - 04/01/2016

SGI environmental — **THE SOURCE GROUP, INC.**
944 McCOURTNEY ROAD, SUITE H
GRASS VALLEY, CALIFORNIA 95949

0 200 400
APPROXIMATE SCALE IN FEET

LEGEND

- Yellow: 4207 W. Linwood Avenue, Turlock, California (Site)
- A: 4030 W. Linwood Avenue, Turlock, California
- B: 4200 W. Linwood Avenue, Turlock, California
- C: 4230 W. Linwood Avenue, Turlock, California
- D: 4318 W. Linwood Avenue, Turlock, California
- E: 4406 and 4408 W. Linwood Avenue, Turlock, California
- F: 4500 W. Linwood Avenue, Turlock, California
- G: 4530 W. Linwood Avenue, Turlock, California
- H: 4600 W. Linwood Avenue, Turlock, California
- I: 1600 S. Washington Road, Turlock, California
- J: 1624 S. Washington Road, Turlock, California
- Turlock Irrigation District (TID) Canal

NOTES:

- Water and sewer services not available in map area. Private properties are assumed to be on septic system.
- * Pre-Spill Data
- NS - Not Sampled
- ND - Not Detected
- Concentrations in mg/L
  Does not include data from March 31, 2016 sampling event.

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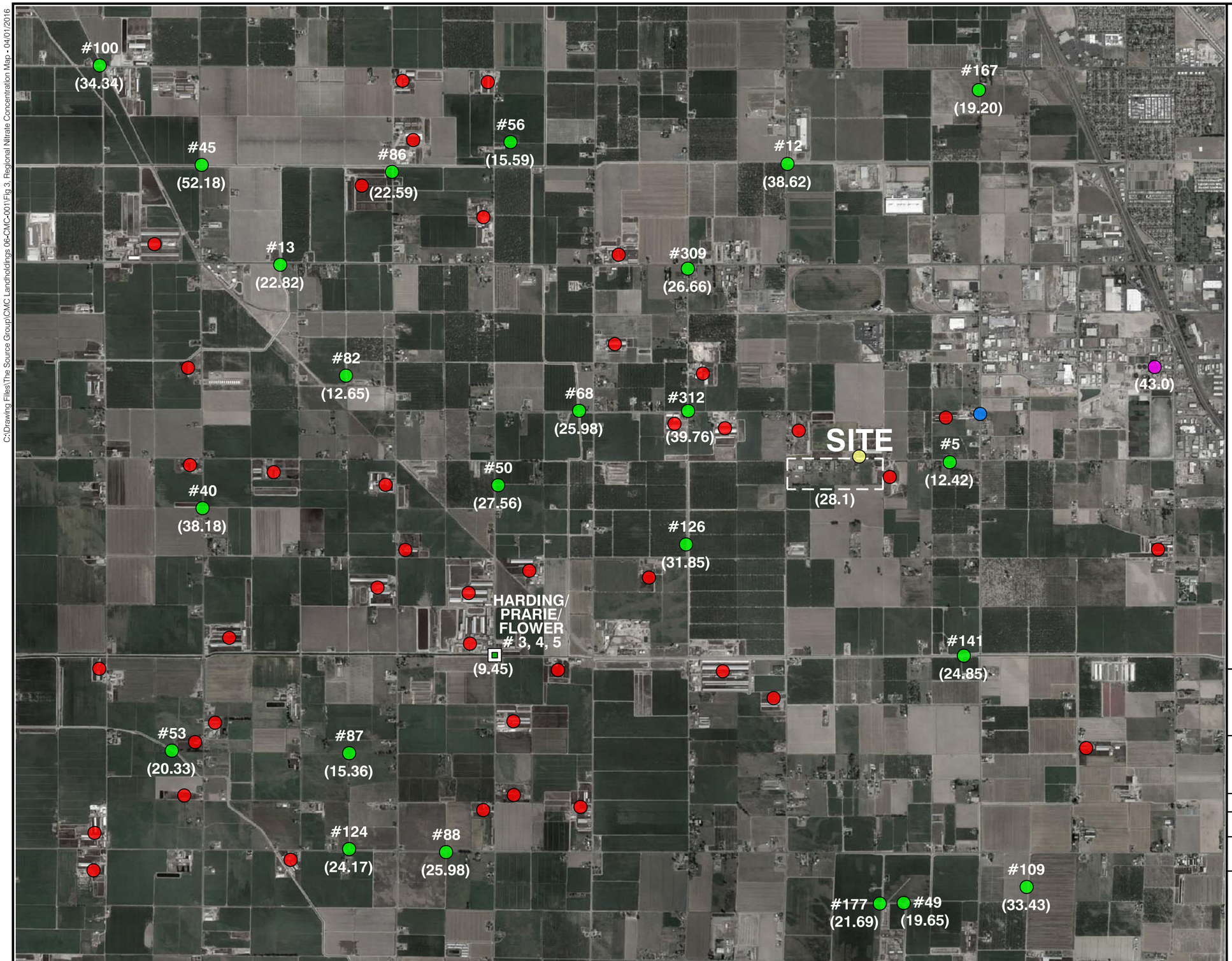
SITE PLAN AND CHEMICAL CONCENTRATION MAP

SOUTH WASHINGTON ROAD AND
WEST LINWOOD AVENUE
TURLOCK, CALIFORNIA

PROJECT NO.:	DATE:	DRAWN BY:	APP. BY:	FIGURE
06-CMC-001	04/01/2016	CM	GM	2

Exhibit 12

C:\Drawing Files\The Source Group\CMC Landholdings 06-CMC-001\Fig 3. Regional Nitrate Concentration Map - 04/01/2016



LEGEND

- 4207 W. Linwood Avenue, Turlock, California (Site)
- Dairies
- Location of Nearest City Water and Sewer Lines
- Turlock Irrigation District (TID) Wells
- City of Turlock Water Quality Control Monitoring Wells
- Harding/Prarie Flower #3, 4, 5
- Domestic Well Area (See Figure 3 For Detailed Nitrate as N Data)
- #5 TID Well Number
- (12.42) Maximum Nitrate as N (Concentration in mg/L)

NOTE:

N&S - Nunes and Sons Dairy
mg/L - Milligrams per Liter

REGIONAL NITRATE CONCENTRATION MAP

SOUTH WASHINGTON ROAD AND
WEST LINWOOD AVENUE
TURLOCK, CALIFORNIA

PROJECT NO.:	DATE:	DRAWN BY:	APP. BY:
06-CMC-001	04/01/2016	CM	GM

0 0.5 1
APPROXIMATE SCALE IN MILES

SGI environmental THE SOURCE GROUP, INC.
944 McCOURTNEY ROAD, SUITE H
GRASS VALLEY, CALIFORNIA 95949

N

FIGURE
3

Exhibit 12

TABLES

Table 1
Wastewater Discharge Related Analytical Results
CMC Landholdings, LLC
Turlock, California

Sample Address	Sample Date	Depth to Water (btoc)	Nitrate as N	Ammonia Nitrogen (NH4-N)	Total Dissolved Solids	EC	TKN	Total Nitrogen	E. Coli	Total Coliform	Soluble Salts	Phosphorus	Potassium	Calcium	Magnesium	Sodium	Chloride	Sulfate as SO4	Bicarbonate Alkalinity as CaCO3	Bicarbonate as HCO3	Carbonate Alkalinity as CaCO3	Carbonate as CO3	Hydroxide Alkalinity as CaCO3	Hydroxide as OH	Total Alkalinity as CaCO3
		feet	mg/L			(µmhos/cm)	(mg/L)		(MPN)		ppm	mg/L													
CVRWQCB ExcelChem Data																									
#1 Lagoon	11/20/15	--	ND<1.13	104	--	4551	--	--	--	--	--	5.9	--	--	--	--	--	--	--	--	--	--	--	--	--
#2 TID Canal South @ Lagoon	11/20/15	--	ND<1.13	115	--	4,617	--	--	--	--	--	4.3	--	--	--	--	--	--	--	--	--	--	--	--	--
#3 Harding/praire flower	11/20/15	--	9.45	8.53	--	1,220	--	--	--	--	--	8.3	--	--	--	--	--	--	--	--	--	--	--	--	--
#4 Harding/praire flower	11/20/15	--	1.21	52.8	--	2,502	--	--	--	--	--	6.2	--	--	--	--	--	--	--	--	--	--	--	--	--
#5 Harding/praire flower	11/20/15	--	4.6	35.3	--	1,720	--	--	--	--	--	7	--	--	--	--	--	--	--	--	--	--	--	--	--
#6 Canal	11/20/15	--	6.81	0.135	--	1,708	--	--	--	--	--	ND<0.15	--	--	--	--	--	--	--	--	--	--	--	--	--
#7 Wastewater	11/20/15	--	ND<1.13	99.5	--	4,465	--	--	--	--	--	4.4	--	--	--	--	--	--	--	--	--	--	--	--	--
#8 Wellwater (4406 W. Linwood Ave.) (Data also included with corresponding address below)	11/20/15	--	13	ND<0.1	2,786	1,393	--	--	--	--	--	ND<0.15	--	--	--	--	--	--	--	--	--	--	--	--	--
#9 Wellwater (4030 W. Linwood Ave.) (Data also included with corresponding address below)	11/20/15	--	21.3	ND<0.1	2,246	1,123	--	--	Present	--	--	0.19	--	--	--	--	--	--	--	--	--	--	--	--	--
CVRWQCB Data																									
Lagoon Discharge Water at 4030 West Linwood	11/20/15	--	--	121	5,660	6,640	279	--	--	--	4,250	84.3	923	--	--	--	--	--	--	--	--	--	--	--	--
Lagoon Discharge Water at 4408 West Linwood	11/20/15	--	--	110	4,050	6,080	215	--	--	--	3,890	64.8	733	--	--	--	--	--	--	--	--	--	--	--	--
Domestic Well Monitoring Data																									
Dairy Well 4207 West Linwood Avenue (Site)	3/27/12*	--	1.41	ND<0.5	--	353	--	--	--	--	226	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/26/2013*	--	0.826	ND<0.5	--	200	--	--	--	--	128	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/04/15	43.35	1.39	--	131	--	--	--	Absent	Absent	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	01/20/16	43.35	1.38	--	192	--	--	--	Absent	Absent	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	02/18/16	Not Measured	1.38	--	230	--	--	--	Absent	Absent	--	--	--	20	1.3	31.3	36.1	14.7	91	111	ND<20	ND<12	ND<20	ND<6.8	91.0
	3/31/16	Not Measured	1.42	--	190	--	--	--	Absent	Absent	--	--	2.7	19	3.2	30.0	30.9	5.4	--	54.7	--	ND<12	--	ND<6.8	44.8
4030 West Linwood Avenue (A)	7/30/2012*	--	34.79	--	--	--	--	--	Absent	Present	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/20/15	--	--	ND	--	--	2.0	--	Present	Present	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/20/15	--	21.3	ND<0.1	2,246	1,123	--	--	Present	--	--	0.19	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/24/15	--	--	ND	--	--	1.5	--	Present	Present	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/04/15	13.71	24.6	--	756	--	--	--	Absent	Present	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	01/20/16	13.71	26.9	--	892	--	--	--	Absent	Absent	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	02/18/16	Not Measured	28.1	--	797	--	--	--	Absent	Absent	--	--	--	110	33.6	97	47.8	69.5	388	473	ND<20	ND<12	ND<20	ND<6.8	388
4200 West Linwood Avenue (B)	12/04/15	Not Accessible	19.3	--	2,370	--	--	--	Absent	Absent	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	01/20/16	Not Accessible	22.3	--	841	--	--	--	Absent	Absent	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	02/18/16	15.05	20.6	--	855	--	--	--	Absent	Absent	--	--	--	130	36.3	106	109	86.4	366	446	ND<20	ND<12	ND<20	ND<6.8	366
	3/31/16	Not Measured	23.4	--	858	--	--	--	Absent	Absent	--	--	4.3	100	33.5	102	148	104	--	445	--	ND<12	--	ND<6.8	365
4230 West Linwood Avenue (C)	12/08/15	Not Accessible	14.2	--	825	--	--	--	Absent	Present	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	01/20/16	Not Accessible	15.3	--	911	--	--	--	Absent	Absent	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	02/18/16	Not Accessible	13.6	--	913	--	--	--	Absent	Absent	--	--	--	140	45.2	108	125	85.1	421	514	ND<20	ND<12	ND<20	ND<6.8	421
	3/31/16	Not Measured	15	--	885	--	--	--	Absent	Absent	--	--	4.4	110	39.1	105	177	114	--	508	--	ND<12	--	ND<6.8	416
4318 West Linwood Avenue (D)	12/04/15	Not Accessible	22	--	1,300	--	--	--	Absent	Absent	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	01/20/16	Not Accessible	21.4	--	1,210	--	--	--	Absent	Absent	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	02/18/16	Not Accessible	10.1	--	1,240	--	--	--	Absent	Absent	--	--	--	190	62.0	149	209	114	582	710	ND<20	ND<12	ND<20	ND<6.8	582
	3/31/16	Not Measured	23.9	--	1,230	--	--	--	Absent	Absent	--	--	4.5	150	52.7	145	280	141	--	651	--	ND<12	--	ND<6.8	534
4406 West Linwood Avenue (E)	6/14/11*	--	8.13	--	--	--	--	--	--	Absent	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/20/15	--	--	ND	--	--	ND	--	Absent	Absent	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/20/15	--	13	ND<0.1	2,786	1,393	--	--	--	--	--	ND<0.15	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/04/15	14.35	14.4	--	903	--	--	--	Absent	Absent	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	01/20/16	14.35	17.3	--	936	--	--	--	Absent	Absent	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	02/18/16	Not Measured	14.3	--	928	--	--	--	Absent	Absent	--	--	--	130	42.2	112	121	80.1	456	556	ND<20	ND<12	ND<20	ND<6.8	456
	3/31/16	Not Measured	16.3	--	892	--	--	--	Absent	Absent	--	--	4.0	100	37.9	120	175	110	--	506	--	ND<12	--	ND<6.8	415

Exhibit 12

Table 1
Wastewater Discharge Related Analytical Results
CMC Landholdings, LLC
Turlock, California

Sample Address	Sample Date	Depth to Water (btoc)	Nitrate as N	Ammonia Nitrogen (NH4-N)	Total Dissolved Solids	EC	TKN	Total Nitrogen	E. Coli	Total Coliform	Soluble Salts	Phosphorus	Potassium	Calcium	Magnesium	Sodium	Chloride	Sulfate as SO4	Bicarbonate Alkalinity as CaCO3	Bicarbonate as HCO3	Carbonate Alkalinity as CaCO3	Carbonate as CO3	Hydroxide Alkalinity as CaCO3	Hydroxide as OH	Total Alkalinity as CaCO3
		feet	mg/L			(µmhos/cm)	(mg/L)		(MPN)		ppm	mg/L													
4500 West Linwood Avenue (F)	12/08/15	Not Accessible	**0.84**	--	**124**	--	--	--	Absent	**Present**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	01/20/16	Not Accessible	**2.02**	--	**290**	--	--	--	Absent	Absent	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	02/18/16	55.43	**2.05**	--	**221**	--	--	--	Absent	Absent	--	--	--	**22**	**3.0**	**31.4**	**22.4**	**4.9**	**103**	**125**	ND<20	ND<12	ND<20	ND<6.8	**103**
	3/31/16	Not Measured	**2.26**	--	**203**	--	--	--	Absent	Absent	--	--	**2.3**	**21**	**4.8**	**30.4**	**25.6**	**5.7**	--	**125**	--	ND<12	--	ND<6.8	**102**
4530 West Linwood Avenue (G)	12/04/15	Not Accessible	**14.5**	--	**707**	--	--	--	Absent	Absent	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	01/20/16	Not Accessible	**18.0**	--	**726**	--	--	--	Absent	Absent	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	02/18/16	Not Accessible	**15.4**	--	**742**	--	--	--	Absent	Absent	--	--	--	**99**	**31.0**	**107**	**73.6**	**60.2**	**385**	**469**	ND<20	ND<12	ND<20	ND<6.8	**385**
	3/31/16	Not Measured	**18.3**	--	**720**	--	--	--	Absent	Absent	--	--	**3.2**	**80**	**28.8**	**104**	**77.9**	**57.6**	--	**928**	--	ND<12	--	ND<6.8	**761**
4600 West Linwood Avenue (H)	12/08/15	Not Accessible	**12.6**	--	**592**	--	--	--	Absent	Absent	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	01/20/16	Not Accessible	**11.5**	--	**642**	--	--	--	Absent	Absent	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	02/18/16	13.95	**10.4**	--	**645**	--	--	--	Absent	Absent	--	--	--	**100**	**30.4**	**57.3**	**53.0**	**40.7**	**380**	**464**	ND<20	ND<12	ND<20	ND<6.8	**380**
	3/31/16	Not Measured	**12.1**	--	**642**	--	--	--	Absent	Absent	--	--	**3.0**	**80**	**28.1**	**74.3**	**62.6**	**45.0**	--	**433**	--	ND<12	--	ND<6.8	**355**
1600 South Washington Road (I)	12/08/15	Not Accessible	**4.25**	--	**302**	--	--	--	Absent	Absent	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	01/20/16	Not Accessible	**3.47**	--	**312**	--	--	--	Absent	Absent	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	02/18/16	Not Accessible	**3.22**	--	**309**	--	--	--	Absent	Absent	--	--	--	**35**	**7.6**	**43.1**	**37.6**	**25.8**	**151**	**184**	ND<20	ND<12	ND<20	ND<6.8	**151**
	3/31/16	Not Measured	**3.81**	--	**302**	--	--	--	Absent	**Present**	--	--	**2.6**	**32**	**8.9**	**41.4**	**33.1**	**17.7**	--	**185**	--	ND<12	--	ND<6.8	**152**
1624 South Washington Road (J)	12/08/15	16.54	**22.6**	--	**894**	--	--	--	Absent	**Present**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	01/20/16	16.54	**24.9**	--	**845**	--	--	--	Absent	Absent	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	02/18/16	Not Measured	**22.9**	--	**183**	--	--	--	Absent	**Present**	--	--	--	**140**	**40.0**	**84.0**	**111**	**51.2**	**353**	**431**	ND<20	ND<12	ND<20	ND<6.8	**353**
	3/31/16	Not Measured	**26.6**	--	**769**	--	--	--	Absent	**Present**	--	--	**3.0**	**110**	**36.3**	**75.1**	**152**	**61.5**	--	**422**	--	ND<12	--	ND<6.8	**346**
3928 West Linwood Avenue	3/31/16	Not Measured	**22.8**	--	**594**	--	--	--	Absent	Absent	--	--	**3.4**	**69**	**22.9**	**57.6**	**48.6**	**63.0**	--	**315**	--	ND<12	--	ND<6.8	**258**
Maximum			28.1		2,370																				
Average			14.1		702																				
Median			14.5		756																				

Notes:
Detections above secondary MCL for TDS (>500 mg/L)
Detections above MCL for Nitrate (>10 mg/L)
Detection shown in **BOLD**
btoc = below top of casing
N = nitrogen
EC = Electrical or Specific Conductivity
TKN = Total Kjeldahl Nitrogen
mg/L = milligrams per liter
µmhos/cm = micromhos per centimeter
MPN = Most Probable Number
ppm = parts per million
* = Pre-Spill Data

Exhibit 12

Table 2
Domestic Well Log Summary
CMC Landholdings, LLC
Turlock, California

Address	Type	Sanitary Seal	Drilling Log	Screened Interval	Total Depth	Date Installed
4406 Linwood Ave (5S/10E-20)	Domestic	Unknown	0-4 top soil, 4-10 sand, 10-85 clay, 85-90 sand, 90-91 clay	80-90	91	9/16/70
207 W Linwood Ave (05S/10E-20	Dairy Well	Yes, bentonite seal to 53' bgs	0-35 sand, 35-40 clay, 40-50 sand, 50-69 clay, 69-71 sand, 71-83 clay, 83-86 sand, 86-119 clay, 119-126 fine sand, 126-130 clay, 130-134 fine sand, 134-158 clay, 158-214 blue clay, 214-229 clay, 229-233 sand, 233-245 clay, 245-250 sand, 250-260 clay	225-255	260	4/9/04
4400 W Linwood Ave (5S/10E-20	Domestic	Unknown	0-5 top soil, 5-7 hard pan, 7-12 clay, 12-28 sand, 28-52 clay, 52-58 sand, 58-60 clay	50-60	60	9/17/70
Unknown Locations	**Type**	**Sanitary Seal**	**Drilling Log**	**Screened Interval**	**Total Depth**	**Date Installed**
218539 (5S/10E-20)	Domestic	Yes, bentonite seal to 24' bgs	0-3 top soil, 3-9 sand, 9-13 clay, 13-21 sand, 21-26 clay, 26-51 sand with clay streaks, 51-67 clay, 67-77 sand, 77-100 pink clay and shale with sand streaks, 100-104 sand, 104-147 clay, 147-205 blue clay, 205-208 fine sand, 208-215 blue clay, 215-225 clay and brown shale, 225-234 brown coarse sand, 234-240 clay, 240-247 coarse brown sand, 247-250 clay, 250-259 coarse brown sand, 259-269 clay, 269-272 sand, 272-280 clay.	245-265	280	11/6/95
218542 (5/10-20)	Domestic	Yes, bentonite seal to 150' bgs	02 top soil, 2-10 sand, 10-12 clay, 12-17 sand, 17-25 clay, 25-40 sand, 40-45 clay, 45-60 sand, 60-90 clay, 90-95 sand, 95-98 clay, 98-102 sand, 102-130 clay, 130-140 fine sand, 140-198 blue clay and fine sand streaks, 198-210 clay and sand streaks, 210-220 sand, 220-222 clay	200-220	222	5/1/87
218544 (5S/10E-20)	Domestic	Yes, bentonite seal to 60' bgs	0-22 sand, 22-30 clay, 30-40 sand, 40-90 clay, 90-95 red sand, 95-120 clay, 120-130 fine sand, 130-154 clay, 154-165 blue sand, 165-210 blue clay, 210-232 gray clay, 232-245 sand, 245-250 clay	225-245	250	5/24/88

Exhibit 12

Table 2
Domestic Well Log Summary
CMC Landholdings, LLC
Turlock, California

Unknown Locations	Type	Sanitary Seal	Drilling Log	Screened Interval	Total Depth	Date Installed
0901101717 (05S/10E-29)	Unknown	Unknown	Unknown	Unknown	Unknown	8/7/09
40281496 (5/10-20 A1)	Drainage Well	Unknown	Drilling Log is not legible	Unknown	250	3/1/35
40281695 (5S/10E-29 A1)	Drainage Well	Unknown	0-15 top soil and clay, 15-40 sand, 40-70 clay, 70 and below is sand	Unknown	70	8/25/22
40281696 (5S-10E-29R1)	Drainage Well	Unknown	0-6 soil, 6-12 hard pan, 12-20 muddy sand, 20-35 soft clay, 35-94 clay, 94-104 sand, 104-130 sand and clay, 130-160 clay, 160-170 sand, 170-215 blue clay, 215-225 clay, 225-227 sand, 227-245 clay, 245-255 sand	Unknown	255	March/April 1939

Notes:

bgs = below ground surface

Table 3
Regional Background Groundwater Analytical Results
CMC Landholdings, LLC
Turlock, California

Sample Address	Sample Date	Depth to Water (btoc)	Nitrate as N	Ammonia Nitrogen (NH4-N)	Total Dissolved Solids	EC	TKN	Total Nitrogen	E. Coli	Total Coliform	Soluble Salts	Phosphorus	Potassium	Calcium	Magnesium	Sodium	Chloride	Sulfate as SO4	Bicarbonate Alkalinity as CaCO3	Bicarbonate as HCO3	Carbonate Alkalinity as CaCO3	Carbonate as CO3	Hydroxide Alkalinity as CaCO3	Hydroxide as OH	Total Alkalinity as CaCO3
		feet	mg/L			(µmhos/cm)	(mg/L)		(MPN)		ppm	mg/L													
Turlock Irrigation District (TID) Wells																									
5	9/24/2008*	--	11.52	--	545	690	--	--	--	--	--	0.01	1.80	62.93	21.02	54.95	19.85	--	--	--	--	--	--	--	--
	6/24/2003*	--	12.42	--	657	720	--	--	--	--	--	0.01	1.90	77.96	26.00	59.08	20.92	--	--	--	--	--	--	--	--
12	9/8/2009*	--	38.62	--	829	910	--	--	--	--	--	0.08	3.40	113.03	39.97	48.97	26.94	--	--	--	--	--	--	--	--
	9/25/2008*	--	28.69	--	741	980	--	--	--	--	--	0.01	2.60	89.98	34.99	48.05	25.17	--	--	--	--	--	--	--	--
	8/17/2007*	--	24.85	--	810	830	--	--	--	--	--	0.03	2.40	119.04	39.00	43.91	26.94	--	--	--	--	--	--	--	--
	12/3/2002*	--	19.65	--	778	960	--	--	--	--	--	0.01	1.90	117.03	39.00	48.05	52.82	--	--	--	--	--	--	--	--
	12/16/1999*	--	27.3	--	700	880	--	--	--	--	--	0.90	2.90	105.01	34.99	48.05	59.91	--	--	--	--	--	--	--	--
13	9/25/2008*	--	22.82	--	629	840	--	--	--	--	--	0.01	2.90	70.94	21.02	63.91	19.85	--	--	--	--	--	--	--	--
	7/17/2008*	--	19.20	--	712	840	--	--	--	--	--	0.05	3.30	87.98	22.96	68.97	28.01	--	--	--	--	--	--	--	--
	7/20/2007*	--	21.46	--	698	870	--	--	--	--	--	0.05	2.10	90.98	25.03	52.88	28.01	--	--	--	--	--	--	--	--
	12/6/2002*	--	0.23	--	566	680	--	--	--	--	--	0.01	0.90	96.99	30.01	45.98	42.89	--	--	--	--	--	--	--	--
	12/16/1999*	--	18.30	--	608	640	--	--	--	--	--	0.54	1.20	79.96	25.03	52.88	31.91	--	--	--	--	--	--	--	--
40	8/20/2009*	--	38.18	--	1008	1210	--	--	--	--	--	0.18	3.80	150.10	38.03	75.87	43.96	--	--	--	--	--	--	--	--
45	8/6/2009*	--	52.18	--	1037	1220	--	--	--	--	--	0.07	3.20	152.91	40.95	66.90	43.96	--	--	--	--	--	--	--	--
	7/3/2008*	--	49.92	--	1022	1020	--	--	--	--	--	0.11	1.80	135.07	35.96	65.98	36.87	--	--	--	--	--	--	--	--
	12/4/2002*	--	36.60	--	820	920	--	--	--	--	--	0.01	1.70	123.05	32.93	57.02	41.12	--	--	--	--	--	--	--	--
	12/15/1999*	--	32.08	--	718	930	--	--	--	--	--	0.61	3.60	111.02	28.92	60.00	39.00	--	--	--	--	--	--	--	--
49	8/28/2009*	--	19.43	--	657	840	--	--	--	--	--	0.17	4.00	85.97	25.03	60.92	49.98	--	--	--	--	--	--	--	--
	8/3/2007*	--	19.65	--	660	650	--	--	--	--	--	0.18	3.70	88.98	26.00	54.03	26.94	--	--	--	--	--	--	--	--
	12/7/1999*	--	3.61	--	602	1030	--	--	--	--	--	0.68	2.40	37.07	13.97	145.07	237.87	--	--	--	--	--	--	--	--
50	9/25/2008*	--	20.78	--	736	960	--	--	--	--	--	0.02	1.80	63.93	23.94	97.02	28.01	--	--	--	--	--	--	--	--
	11/20/2002*	--	14.46	--	855	940	--	--	--	--	--	0.01	1.70	89.98	30.01	105.06	43.96	--	--	--	--	--	--	--	--
	12/23/1999*	--	27.6	--	700	830	--	--	--	--	--	0.77	0.60	72.95	21.99	91.96	49.98	--	--	--	--	--	--	--	--
	12/23/1999*	--	16.9	--	704	820	--	--	--	--	--	0.44	1.20	74.95	23.94	94.03	39.00	--	--	--	--	--	--	--	--
53	5/15/2009*	--	20.3	--	1309	1620	--	--	--	--	--	0.14	3.80	135.07	39.97	185.99	158.11	--	--	--	--	--	--	--	--
	9/7/2002*	--	16.9	--	1083	1540	--	--	--	--	--	0.01	2.50	110.02	34.02	180.93	213.05	--	--	--	--	--	--	--	--
	11/29/1999*	--	14.0	--	1096	1390	--	--	--	--	--	0.65	2.40	108.02	34.99	192.89	237.87	--	--	--	--	--	--	--	--
56	12/6/2002*	--	15.6	--	752	800	--	--	--	--	--	0.01	1.20	99.00	31.95	71.96	42.89	--	--	--	--	--	--	--	--
	12/15/1999*	--	12.4	--	610	770	--	--	--	--	--	0.81	3.00	81.96	26.97	62.07	52.82	--	--	--	--	--	--	--	--
68	8/24/2009*	--	26.0	--	838	870	--	--	--	--	--	0.01	3.50	93.99	30.98	100.93	35.10	--	--	--	--	--	--	--	--
	9/25/2008*	--	25.1	--	685	880	--	--	--	--	--	0.05	2.20	69.94	21.99	79.09	25.88	--	--	--	--	--	--	--	--
	11/20/2002*	--	15.8	--	811	850	--	--	--	--	--	0.08	2.10	87.98	26.00	85.98	41.12	--	--	--	--	--	--	--	--
	12/23/1999*	--	21.01	--	614	680	--	--	--	--	--	0.46	1.70	68.94	21.99	82.07	28.01	--	--	--	--	--	--	--	--
82	12/6/2002*	--	12.65	--	558	560	--	--	--	--	--	0.01	0.40	63.93	17.98	65.06	20.92	--	--	--	--	--	--	--	--
	12/16/1999*	--	10.17	--	568	570	--	--	--	--	--	0.50	1.30	54.91	16.04	69.89	119.11	--	--	--	--	--	--	--	--
86	7/17/2008*	--	22.6	--	754	900	--	--	--	--	--	0.03	3.50	95.99	28.92	63.91	96.07	--	--	--	--	--	--	--	--
	7/20/2007*	--	20.11	--	739	900	--	--	--	--	--	0.02	2.60	95.99	26.97	52.88	31.91	--	--	--	--	--	--	--	--
	9/5/2002*	--	17.17	--	684	770	--	--	--	--	--	0.01	2.50	79.96	23.94	52.88	43.96	--	--	--	--	--	--	--	--
	12/15/1999*	--	15.14	--	588	760	--	--	--	--	--	0.72	2.70	82.97	25.03	60.00	49.98	--	--	--	--	--	--	--	--
87	9/17/2009*	--	15.36	--	723	740	--	--	--	--	--	0.14	2.50	82.97	18.95	85.06	41.12	--	--	--	--	--	--	--	--
	7/27/2007*	--	14.99	--	667	870	--	--	--	--	--	0.01	1.50	79.96	17.98	85.98	39.00	--	--	--	--	--	--	--	--
	12/3/2002*	--	15.36	--	664	770	--	--	--	--	--	0.01	2.30	79.96	17.01	77.02	39.00	--	--	--	--	--	--	--	--
	11/29/1999*	--	12.65	--	675	710	--	--	--	--	--	0.53	1.20	69.94	17.98	88.05	159.88	--	--	--	--	--	--	--	--
88	9/17/2009*	--	25.98	--	911	1070	--	--	--	--	--	0.19	3.80	109.02	23.94	115.87	90.04	--	--	--	--	--	--	--	--
	7/27/2007*	--	22.36	--	840	1190	--	--	--	--	--	0.01	2.40	99.00	22.96	122.08	70.90	--	--	--	--	--	--	--	--
	9/7/2002*	--	21.91	--	863	1060	--	--	--	--	--	0.01	2.50	90.98	21.99	103.91	97.13	--	--	--	--	--	--	--	--
	11/19/1999*	--	16.72	--	780	930	--	--	--	--	--	0.13	2.30	92.99	22.96	114.95	130.81	--	--	--	--	--	--	--	--
100	8/20/2009*	--	34.3	--	837	1040	--	--	--	--	--	0.23	4.90	128.06	38.03	54.95	36.87	--	--	--	--	--	--	--	--
109	9/26/2008*	--	24.6	--	714	850	--	--	--	--	--	0.05	3.40	95.99	25.03	60.92	35.10	--	--	--	--	--	--	--	--
	7/27/2007*	--	22.6	--	767	810	--	--	--	--	--	0.03	3.20	105.01	27.95	65.06	31.91	--	--	--	--	--	--	--	--
	12/7/1999*	--	33.4	--	684	810	--	--	--	--	--	0.76	2.90	90.98	23.94	57.93	46.09	--	--	--	--	--	--	--	--

Exhibit 12

Table 3
Regional Background Groundwater Analytical Results
CMC Landholdings, LLC
Turlock, California

Sample Address	Sample Date	Depth to Water (btoc)	Nitrate as N	Ammonia Nitrogen (NH4-N)	Total Dissolved Solids	EC	TKN	Total Nitrogen	E. Coli	Total Coliform	Soluble Salts	Phosphorus	Potassium	Calcium	Magnesium	Sodium	Chloride	Sulfate as SO4	Bicarbonate Alkalinity as CaCO3	Bicarbonate as HCO3	Carbonate Alkalinity as CaCO3	Carbonate as CO3	Hydroxide Alkalinity as CaCO3	Hydroxide as OH	Total Alkalinity as CaCO3
124	9/17/2009*	--	17.6	--	967	1180	--	--	--	--	--	0.06	3.80	107.01	23.94	149.89	121.95	--	--	--	--	--	--	--	--
	9/22/2008*	--	16.7	--	875	1240	--	--	--	--	--	0.12	3.10	95.99	21.02	143.92	102.81	--	--	--	--	--	--	--	--
	7/27/2007*	--	24.2	--	1074	1500	--	--	--	--	--	0.26	4.30	101.00	27.95	165.99	101.03	--	--	--	--	--	--	--	--
	9/7/2002*	--	17.4	--	879	1120	--	--	--	--	--	0.01	2.30	81.96	19.93	132.88	119.11	--	--	--	--	--	--	--	--
	11/29/1999*	--	12.9	--	819	1030	--	--	--	--	--	0.57	2.30	83.97	21.02	135.87	166.97	--	--	--	--	--	--	--	--
126	8/25/2009*	--	31.9	--	1059	1170	--	--	--	--	--	0.09	3.90	114.03	36.94	148.06	77.99	--	--	--	--	--	--	--	--
141	9/24/2008*	--	24.8	--	718	870	--	--	--	--	--	0.02	3.60	89.98	27.95	51.96	26.94	--	--	--	--	--	--	--	--
	6/24/2003*	--	21.7	--	749	860	--	--	--	--	--	0.03	3.40	99.00	30.98	56.10	30.13	--	--	--	--	--	--	--	--
167	8/24/2009*	--	19.2	--	660	690	--	--	--	--	--	0.01	3.80	93.99	34.02	40.00	25.17	--	--	--	--	--	--	--	--
	10/1/2008*	--	17.6	--	503	630	--	--	--	--	--	0.05	2.10	72.95	23.94	31.96	25.17	--	--	--	--	--	--	--	--
	8/17/2007*	--	17.2	--	557	560	--	--	--	--	--	0.03	2.30	78.96	26.00	29.89	10.99	--	--	--	--	--	--	--	--
177	9/6/2002*	--	19.9	--	738	1030	--	--	--	--	--	0.03	4.20	103.01	31.95	71.04	70.90	--	--	--	--	--	--	--	--
	12/7/1999*	--	21.7	--	697	940	--	--	--	--	--	0.78	4.50	102.00	27.95	65.98	67.00	--	--	--	--	--	--	--	--
309	11/20/2002*	--	26.7	--	1167	1400	--	--	--	--	--	0.06	3.30	143.09	50.91	128.05	82.95	--	--	--	--	--	--	--	--
312	9/25/2008*	--	39.8	--	1071	1420	--	--	--	--	--	0.01	2.40	109.02	39.97	122.08	54.95	--	--	--	--	--	--	--	--
	11/20/2002*	--	21.9	--	1004	1150	--	--	--	--	--	0.02	2.20	115.03	38.03	117.02	65.94	--	--	--	--	--	--	--	--
City of Turlock Water Quality Control Monitoring Wells ~2 miles east-northeast																									
901 South Walnut Road - Well ID GW-001	1/31/2012*	--	29.2	ND<1.29	768	1229	1.0	30.2	--	Absent	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	5/8/2012*	--	24.1	ND<1.29	806	1098	ND<1.0	24.1	--	Absent	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	8/7/2012*	--	27.4	ND<1.29	741	1087	ND<1.0	27.4	--	Absent	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/29/2012*	--	16.6	ND<1.29	684	1030	ND<1.0	16.6	--	--	--	ND<0.05	3.56	81.4	29.6	74.2	55.6	--	298	--	ND<20	--	ND<20	--	298
	3/11/2014*	--	25.9	ND<1.29	723	1500	1.0	26.9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	5/19/2014*	--	24.1	ND<1.29	836	1220	1.4	25.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
901 South Walnut Road - Well ID GW-002	1/31/2012*	--	16.7	ND<1.29	565	--	1.2	17.9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	5/8/2012*	--	12.4	ND<1.29	686	881	ND<1.0	12.4	--	Absent	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	8/7/2012*	--	19.9	ND<1.29	602	911	ND<1.0	19.9	--	Absent	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/29/2012*	--	15.2	ND<1.29	624	881	ND<1.0	15.2	--	Absent	--	ND<0.05	3.62	116	30.5	10.8	21.5	--	321	--	ND<20	--	ND<20	--	321
	2/19/2013*	--	15.9	ND<1.29	725	893	ND<1.0	15.9	--	Absent	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	5/13/2013*	--	9.2	ND<1.29	590	955	1.3	10.5	--	--	--	0.11	2.63	139	34.6	11	17.3	24.7	424	--	ND<20	--	ND<20	--	424
	8/12/2013*	--	11.6	ND<1.29	643	958	0.8	12.4	--	Absent	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/18/2013*	--	21.0	ND<1.29	642	965	ND<1.0	21.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/11/2014*	--	24.0	ND<1.29	549	1,130	1.0	25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	5/19/2014*	--	22.6	ND<1.29	599	792	1.7	24.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	8/20/2014*	--	21.1	ND<1.29	717	803	1.0	22.1	--	--	--	0.14	--	106	24.6	7.32	8.87	--	292	--	ND<20	--	ND<20	--	292
	11/10/2014*	--	19.4	1.81	472	681	ND<0.8	21.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/4/2015*	--	23.6	ND<1.29	540	778	1.7	24.7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/16/2015*	--	43	ND<1.29	611	868	ND<1.0	43	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
901 South Walnut Road - Well ID GW-003	11/10/2014*	--	2.32	ND<1.29	277.00	450	2.2	4.52	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Maximum			43.0		1309.0																				
Average			21.2		744.8																				
Median			21.1		717.5																				

Notes:
Detections above secondary MCL for TDS (>500 mg/L)
Detections above MCL for Nitrate (>10 mg/L)
Detections shown in **BOLD**
btoc = below top of casing
N = nitrogen
EC = Electrical or Specific Conductivity
TKN = Total Kjeldahl Nitrogen

ATTACHMENT A

RWQCB CORRESPONDENCE

CALIFORNIA
Water Boards

EDMUND G. BROWN JR.
GOVERNOR

MATTHEW RODRIQUEZ
SECRETARY FOR
ENVIRONMENTAL PROTECTION

Central Valley Regional Water Quality Control Board

15 January 2016

CMC Land Holdings LLC
c/o. George P. Rodarakis, Esq.
Rodarakis & Sousa
1301 L Street, Suite 4
Modesto, CA 95354

Certified Mail No.
7012 0470 0000 9904 3611

CALIFORNIA WATER CODE SECTION 13267 ORDER – DIRECTIVES FOR SUBMITTING DOCUMENTATION PERTAINING WASTEWATER DISCHARGE ON 20 NOVEMBER 2015 AND MITIGATION MEASURES AT CMC LANDHOLDINGS LLC, 4207 W LINWOOD AVENUE, TURLOCK, STANISLAUS COUNTYY

You are legally obligated to respond to this Order. Please read this Order carefully.

On 20 November 2015 Regional Water Quality Control Board staff received a Hazardous Material Spill Report from the Governor's Office of Emergency Services stating that a levee of a dairy lagoon located near 4207 W Linwood Avenue in Turlock broke in the morning of 20 November 2015 for unknown reasons.

Staff visited the site on the same day and assessed the discharge of wastewater into the dairy facility, nearby cropland, residential areas, and Turlock Irrigation District canals (see the attached Inspection Report).

Priority Reporting of Significant Events: - In the Priority Reporting of Significant Events submitted to our office on 25 November 2015, you indicated that the total volume of wastewater discharged from the lagoon was between 2.5 and 3 million gallons. The discharge was attributed to a rodent hole adjacent to a 4 inch in-ground pipe that allowed wastewater to seep through the bank creating a breach in the south wall of the storage lagoon.

As shown in the table below, the wastewater and domestic well samples taken from the residential areas south of W Linwood Avenue indicated that the groundwater from many wells contains nitrate-nitrogen in excess of the Maximum Contaminant Limit (MCL) of 10 mg/L. Some wells also tested positive for bacteria.

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Date Sampled	Sample source	Address	Depth to Water (ft.)	NH_4-N	P	K	NO_3-N	soluble salts (ppm)	EC µmhos/cm	TDS	TKN	E.coli	total coliform
				(mg/L)						(mg/L)		a/p	
11/20/15	Lagoon discharge	4408 W Linwood		110	64.8	733		3890	6080	4050	215		
11/20/15	Lagoon discharge	4030 W Linwood		121	84.3	923		4250	6640	5660	279		
11/20/15	Domestic well	4406 W Linwood		ND							ND	absent	absent
11/24/15	Domestic well	4030 W Linwood		ND							1.5	**present**	**Present**
11/20/15	Domestic well	4030 W Linwood		ND							2	present	Present
12/4/15	Dairy well	4207 W Linwood	43.35				1.39			131		absent	absent
12/4/15	Domestic well	4530 W Linwood	Unable to access				14.5			707		absent	absent
12/4/15	Domestic well	4406 W Linwood	14.35				14.4			903		absent	absent
12/4/15	Domestic well	4318 W Linwood	Unable to access				22			1300		absent	absent
12/4/15	Domestic well	4200 W Linwood	Unable to access				19.3			2370		absent	absent
12/4/15	Domestic well	4030 W Linwood	13.71				24.6			756		absent	**present**
12/8/15	Domestic well	1624 S Washington	16.54				22.6			894		absent	**present**
12/8/15	Domestic well	1600 S Washington	Unable to access				4.25			302		absent	absent
12/8/15	Domestic well	4600 W Linwood	Unable to access				12.6			592		absent	absent
12/8/15	Domestic well	4500 w Linwood	Unable to access				0.84			124		absent	**present**
12/8/15	Domestic well	4230 w Linwood	Unable to access				14.2			825		absent	**present**

a/p, absent (a) or present (p); EC, Specific conductance; NH_4-N, ammonia nitrogen; ND, not detectable; NO_3-N, nitrate nitrogen; TDS, total dissolved solids; TKN, total Kjeldahl nitrogen

The Executive Officer of the Central Valley Water Board hereby finds that:

1. CMC Land Holdings LLC (the Dairy), located at 4207 W Linwood Avenue in Turlock, is regulated under the Reissued Waste Discharge Requirements General Order for Existing Milk Cow Dairies, Order R5-2013-0122 (General Order). Coverage under the General Order requires an owner and/or operator to comply with all conditions of the Order, including maintaining and submitting technical and monitoring reports.
2. The Nutrient and Waste Management Plans were not implemented according to the directives outlined in the General Order.
3. The collection, treatment, storage discharge or disposal of wastes at the facility does not meet the conditions outlined in the General Order which resulted in the creation of a condition of pollution or nuisance.
4. Application of manure or process wastewater to cropland for other than nutrient recycling is a violation of the General Order.
5. The direct discharge of wastewater into groundwater is violation of the General Order.

6. The level of wastewater in the process wastewater retention (ponds) was not maintained at a minimum of two feet from the top of each aboveground embankment.
7. The ponds did not have the capacity necessary to contain the runoff from the production area and direct precipitation from 25-year, 24-hour storm event.
8. The corrals were not graded to promote drainage.

This Order instructs you to submit specific documents pertaining to operation of the dairy and farming of the associated cropland, as listed below:

1. Submit a report, prepared by a licensed Civil Engineer, evaluating the structural integrity of the wastewater lagoon and settling basin. The report shall include a determination of maximum of depth of the lagoon and settling basin and the vertical distance between the land surface and the top of the lagoon and settling basin embankments.
2. Submit results of any additional sampling of the wells listed in your 8 December 2015 letter to Andrew Altevogt that has been conducted since 8 December 2015. In addition, the wells should be sampled for general minerals (calcium, magnesium, sodium, bicarbonate, carbonate, sulfate, and chloride), and should be sampled biweekly for nitrate-nitrogen, total dissolved solids, E. coli, and total coliform.
3. Submit well driller's logs for the wells listed in your 8 December 2015 letter to Andrew Altevogt.
4. Submit copies of the Visual Inspection reports for the wastewater pond and settling basin for the 2015 calendar year.
5. Provide application information (field location, field name or identifier, ownership, crop type, and volume applied) for released wastewater that was applied to cropland upon removal from the Turlock Irrigation District canal system. Provide the total volume of wastewater applied to cropland.
6. Calculate and submit to the Board the volume of released wastewater that was returned to the pond and settling basin at 4207 W Linwood.
7. If you intend to close the dairy, submit a closure plan that includes a timeline for the completion of closure.
8. If you intend to continue to house animals of any type at 4207 W Linwood, submit:
    A. A corral grading plan that promotes drainage into the pond/settling basin and prevents water ponding in the corrals;
    B. An Operation and Maintenance Plan for the pond and settling basin that includes berm maintenance actions, freeboard monitoring, and installation of depth markers;
    C. A revised Waste Management Plan that demonstrates that the facility has the required storage capacity.

Reports A-C shall be prepared by appropriately licensed professionals as required in the General Order.

Clean Water Act section 13268 states, in relevant part, that

> *(a)(1) Any person failing or refusing to furnish technical or monitoring program reports as required by subdivision (b) of Section 13267 … is guilty of a misdemeanor, and may be liable civilly in accordance with subdivision (b)….*
>
> *(b)(1) Civil liability may be administratively imposed by a regional board in accordance with Article 2.5 (commencing with Section 13323) of Chapter 5 for a violation of subdivision (a) in an amount which shall not exceed one thousand dollars ($1,000) for each day in which the violation occurs.*

Failure to submit the required reports to the Central Valley Water Board may result in enforcement action being taken against CMC Land Holdings LLC, which may include imposition of administrative civil liability pursuant to CWC section 13268, or referral to the Attorney General's Office for injunctive relief or the imposition of civil liability. Pursuant to CWC section 13268, the Central Valley Water Board may impose administrative civil liability of up to $1,000 per day for each day that the report required herein is not submitted to the Central Valley Water Board.

IT IS HEREBY ORDERED that, pursuant to California Water Code section 13267, CMC Land Holding shall, by **5 February 2016**, submit the information listed in item #5 (above) and by **15 February 2016**, submit the remaining information listed above to the Central Valley Water Board. All of the requested information should be based on the facility's current operations.

Andrew Altevogt

Andrew Altevogt, PhD, PE
Assistant Executive Officer

Enclosure:
Inspection report

Exhibit 12

CENTRAL VALLEY REGIONAL WATER QUALITY CONTROL BOARD

INSPECTION REPORT

DATE: 23 November 2015

DAIRY & LOCATION: CMC Land Holdings LLC, 4207 W Linwood Avenue, Turlock, Stanislaus County

CONTACTS: Mike Borba (209 541 7001)

INSPECTION DATE: 20 November 2015

INSPECTED BY: Girma Getachew & Gilberto Corral, CVRWQCB

ACCOMPANIED BY: Mike Borba (owner)
Joe Ramos, F & R Ag Services, Inc.
Scott Cole (TID, Water Operations Manager)
Adam Cahn (Department of Fish and Wildlife)

Others personnel and Agencies present:
Lucien Musso Stanislaus County, Hazardous Materials Division
Ali Arshad, Stanislaus County, Hazardous Materials Division
Wallace Low, Stanislaus County, Environmental Health
Rachel Reiss, Stanislaus County, Environmental Health

OBSERVATIONS AND COMMENTS:

On 20 November 2015, Regional Water Quality Control Board staff received a Hazardous Materials Spill Report from the Governor's Office of Emergency Services stating that a levee of a dairy located near 4207 W Linwood Avenue in Turlock broke in the morning of 20 November 2015 for unknown reasons.

Upon arrival, staff noted that the wastewater lagoon located in the CMC Land Holding facility at 4207 Linwood Avenue released wastewater via a broken berm on the south side of the lagoon. The wastewater then went into the corrals and into the residential areas across W Linwood Avenue.

Dairy: Milking at the facility ceased in June 2014, the facility currently houses about 400 large heifers. About 53 acres of cropland is associated with the facility.

Wastewater Ponds: - The facility has two wastewater ponds (one settling basin on the north side and a larger wastewater lagoon on the south side). Staff noted the breached berm on the south side of the lagoon was being repaired. When staff arrived, the flow of wastewater from the lagoon had been stopped. According to Mike Borba (owner), the weir box that conveys wastewater from the settling basin to the storage lagoon was clogged and prevented the wastewater movement from the settling basin to the storage lagoon. To facilitate the wastewater

Exhibit 12

conveyance, the berm between the storage lagoon and settling basin was cut (opened) 3 to 4 ft. wide. This may have resulted in a large amount of wastewater flow into the storage lagoon, resulting in an observed 2 to 3 ft. drop in this wastewater level in the settling basin. The wastewater lagoon did not have the required two ft. of freeboard based on the observed water marks in the lagoon. In the Waste Management Plan, the existing and required storage capacities were calculated to be 7.9 and 4.2 million gallons respectively. Lack of freeboard in the lagoon was an indication that the Waste Management Plan was not properly implemented. The discharge caused about a 4 to 5 ft. drop in the wastewater level in the storage lagoon (visual assessment of the water marks on the inner berm). It was estimated that about 3.7 million gallons of wastewater was discharged.

Corrals: - The corrals on the north and south sides of the animal housing were flooded with wastewater. The excessive flow of wastewater into the south corral forced wastewater into the residential areas across W Linwood Avenue. The corrals were not graded and as a result extensive water ponding was noted.

Cropland: - the cropland on the west side of the storage lagoon was flooded with wastewater. There was no crop at the time of the flooding.

Residential areas: The front and back yards of a number of houses, including the areas around domestic wells, were flooded with wastewater. Well-water samples were collected from two homes (4030 and 4406 W Linwood Avenue).

Turlock irrigation canals and laterals: - Wastewater from the storage lagoon entered the canal located on the south side of the lagoon. The canal conveys water into the Harding Drain located about 3 miles from discharge area. The Turlock Irrigation District was notified of the lagoon breach on 20 November at about 5:00 to 5:30 AM by the residents impacted by the wastewater. According to Scott Cole from TID (Turlock Irrigation District), TID closed the valve at Drop 32 on the Harding Drain before wastewater reached the Drain, and redirected the wastewater to nearby farmers to irrigate their cropland. By so doing TID mitigated the wastewater reaching Harding Drain. However there was wastewater in Harding Drain that was leaked due to a malfunctioning valve. Staff collected samples from the lagoon, TID canals, and two domestic wells.

Mike Borba (one of the owners of the property) was first notified by TID about the breach on 20 November at about 7:12 AM. He indicated that the breach may have been caused by gopher holes or an old pipe on the south side of the storage lagoon.

The CMC Land Holdings facility violated the following prohibitions and specifications in the Re-issued Dairy General Order:

1. Not implementing waste and nutrient management plans
2. The collection, treatment, storage discharge or disposal of wastes at an existing milk cow dairy shall not result in the creation of a condition of pollution or nuisance (Prohibition A4)
3. The land application of manure or process wastewater to cropland for other than nutrient recycling is prohibited (Prohibition A9)
4. The direct discharge of wastewater into groundwater prohibited (Prohibition A14)
5. The level of waste in the process wastewater retention (ponds) shall be kept a minimum of two feet from the top of each aboveground embankment (Pond Specification C1)
6. Ponds designated to contain the 25-year, 24-hour storm event runoff must have a depth marker that clearly indicates the minimum capacity necessary to contain the runoff and direct precipitation from 25-year, 24-hour storm event (Pond Specification C3).
7. All dirt or unpaved corrals shall be graded to promote drainage (Production Area Specification D1)

SUMMARY AND CONCLUSION:

About 3.7 million gallons of wastewater were discharged from the storage lagoon (based on the observed 4 to 5 ft. drop in the liquid level in the storage lagoon and the 2 to 3 ft. drop in the settling basin). In addition to corral ponding, the discharge impacted residential areas and TID waterways, including some amount which went into the Harding Drain. The corrals were not graded, resulting in extensive wastewater ponding. The Waste Management Plan and Nutrient Management Plan were not implemented appropriately. The Production Areas, including wastewater storage ponds, were not managed according the requirements outlined in the Re-issued Dairy General Order.

Photo 1: North side of west corral

Photo 2:Wastewater ponding on south side of Linwood Avenue (east to west view)

Photo 3: Wastewater ponding in west side corral

Photo 4: Wastewater ponding along Linwood Avenue (west to east view)

Photo 5: Wastewater ponding in south side corral

Photo 6: Wastewater ponding in south side corral; wastewater being pumped back from residential areas in to corrals and then to pond

Photo 7: Wastewater being pumped from residential areas to corral (west to east view)

Photo 8 Wastewater being pumped from residential areas to corral

Exhibit 12

Photo 9: Wastewater being pumped from residential areas to corral

Photo 10: Wastewater being pumped from residential areas to corral

Photo 11: Wastewater directed to cropland

Photo 12: Wastewater in TID canal (south side of the lagoon; west to east view)

Photo 13: South side lagoon dropped 4 to 5 ft. due to the discharge

Photo 14: Wastewater from corrals being pumped back to lagoon

Photo 15: North side lagoon dropped 2-3 ft. due to the discharge

Photo 16: Wastewater from settling basin directed into lagoon by cutting the berm between them

Exhibit 12

Photo 17 The broken berm of the lagoon being repaired

Photo 18: Lagoon berm with holes:

Photo 19: TID canal south of the lagoon (east to west view)

Photo 20: TID canal east of the lagoon (west to east view)

Exhibit 12

Photo 21: Wastewater ponding in south side corral and on road side (east to west view)

Photo 22: Wastewater being pumped from residential area into the corrals

Photo 23: Wastewater reached groundwater well location

Photo 24: Wastewater reached wells in residential area

Exhibit 12

Photo 25: Wastewater in Harding Drain

Photo 26: Wastewater leaked into Harding Drain

Photo 27: Wastewater in Harding Drain; the leaking area was being closed

Photo 28: Wastewater in Harding Drain: attempt to pump wastewater from the drain

ATTACHMENT B

LABORATORY ANALYTICAL REPORTS

MIKE HUMBLE
State License #276660

I.J. LARSEN PUMPS, INC. & CRANE SERVICE

509 Tully Road
Modesto, California 95350
209.529.2020

P.O. Box 1
Hilmar, California 95324
209.634.7276

Date: 7/30/12
R.O. SYSTEM:

Address: 4030 West Linwood
Escrow number:

To Whom It May Concern:

Thank you for the opportunity to provide you with our excellent service from I.J Larsen Pumps, Inc. I have inspected the pressure system at 4030 West Linwood Road. We have found the system to be operating as of 7/30/12, as follows. Any obvious corrections or repairs that are necessary will be brought to your attention as listed below. This pump inspection is only valid for day of inspection.

General Information

Pump

Brand: N/A

Motor: FE

Horsepower: 2

Voltage: 230

Amps: 12.0

Type of Pull: Truck

Tank Type: 85 IC

Estimated Gpm: 35

Well

Well Depth: N/A

Well Size: 6"

Water Level: N/A

Pipe Setting: N/A

Type of Pipe: N/A

Well Seal: Yes

Have Foundation: Yes

Above Grade: Yes

Comments: The pump is running at the time of inspection.

Needed corrections or repairs:

Inspected by:
Mark Crist
Service Technician
I. J. Larsen Pumps Inc.

Our inspections are limited to the water pump, the electrical equipment of the pump and the water tank.

CUSTOMER'S NAME: Exit Reality W.O. #: 31560

A & L WESTERN AGRICULTURAL LABORATORIES

1311 WOODLAND AVE #1 • MODESTO, CALIFORNIA 95351 • (209) 529-4080 • FAX (209) 529-4736

NO. 419 P. 1/1

REPORT NUMBER: 12-212-130

CLIENT: 2320-M

DATE SAMPLED: 07/30/2012 12:45
DATE RECEIVED: 07/30/12
DATE COMPLETED: 07/31/12
SUBMITTED BY:

FAXED

SEND TO: I J LARSEN PUMPS INC
509 TULLY ROAD
MODESTO, CA 95350

CUSTOMER:

E-MAILED

DATE OF REPORT: 07/31/2012

WATER ANALYSIS REPORT

PAGE: 1

Sample ID	Lab Number	Sodium Na ppm	Calcium Ca ppm	Magnesium Mg ppm	Carbonate CO_3 ppm	Bicarbonate HCO_3 ppm	Chloride Cl ppm	Conductivity E.C. mmhos/cm	pH	Copper Cu ppm	Iron Fe ppm	Manganese Mn ppm	Zinc Zn ppm
4030 W LINWOOD	61963												

Sample ID	Phosphorus P ppm	Potassium K ppm	Nitrate NO_3 ppm	Sulfate SO_4 ppm	Boron B ppm	Dissolved Solids ppm	Total Hardness ppm	Total Coliform	E. coli
4030 W LINWOOD			154					PRESENT	ABSENT

Comments:
Maximum contaminant level for nitrate in drinking water is 45 ppm.
Does not meet current water quality standards for coliform bacteria.

This report applies only to the sample(s) tested. Samples are retained a maximum of thirty days after testing.

Robert Butterfield
A & L WESTERN LABORATORIES, INC.

A&L WESTERN LAB

Exhibit 12

MIKE HUMBLE
State License #276660

1947 62 2009 YEARS

I.J. LARSEN PUMPS, INC. & CRANE SERVICE

509 Tully Road
Modesto, California 95350
209.529.2020

P.O. Box 1
Hilmar, California 95324
209.634.7276

Date:6/14/11
R.O. SYSTEM: Yes

Buyer x Pamela Paul Laine Hagins
Date x 8-9-11

Address: 4406 Linwood
Escrow number:

To Whom It May Concern:

Thank you for the opportunity to provide you with our excellent service from LJ Larsen Pumps, Inc. I have inspected the pressure system at 4406 Linwood we have found the system to be operating as 6/14/11, as follows. Any obvious corrections or repairs that are necessary will be brought to your attention as listed below. This pump inspection is only valid for day of inspection.

General Information

Pump	Well
Brand: Meyers Sta-rite	Well Depth: N/A
Motor: a-o smith	Well Size: 5'
Horsepower: 1	Water Level: N/A
Voltage: 240	Pipe Setting: N/A
Amps: 8	Type of Pipe: galv
Type of Pull: Hand/pull	Well Seal: No (PLATE)
Tank Type: 120 GAL	Have Foundation: Yes
Estimated Gpm :	Above Grade: Yes

Comments:

Needed corrections or repairs: Needs service disconnect at well

Inspected by:
Mike Humble Sr
Service Technician
I. J. Larsen Pumps Inc.

Seller x
Seller x
Date x 7/1/11

Our inspections are limited to the water pump, the electrical equipment of the pump and the water tank.

CUSTOMERS NAME: W.O. #:

Exhibit 12

Seller x [signature] Seller x [signature]
Date 7/1/11

A & L WESTERN AGRICULTURAL LABORATORIES

1311 WOODLAND AVE #1 • MODESTO, CALIFORNIA 95351 • (209) 529-4080 • FAX (209) 529-4736

REPORT NUMBER: 11-165-089

CLIENT: 2320-M

DATE SAMPLED: 06/14/2011 08:15
DATE RECEIVED: 06/14/11
DATE COMPLETED: 06/16/11
SUBMITTED BY: MIKE

SEND TO: I J LARSEN PUMPS INC
509 TULLY ROAD
MODESTO, CA 95350

Buyer x [signature]
Date x 8-9-11

CUSTOMER: 4406 LINWOOD

DATE OF REPORT: 06/16/2011

WATER ANALYSIS REPORT

PAGE: 1

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
4406	62881												

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
4406			36					ABSENT	

Comments:

This report applies only to the sample(s) tested. Samples are retained a maximum of thirty days after testing.

[signature]
Robert Butterfield
A & L WESTERN LABORATORIES, INC.

Exhibit 12

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

ort # B5F1606 **Project: Ground Water Monitoring** **Date:** 06/29/15

City of Turlock
156 South Broadway, Suite 270
Turlock, CA 95380

Date Rec'd: 06/16/15

CERTIFICATE OF ANALYSIS

Sampler: Wayne Clay

Sample ID: GW-002

Lab ID	Sample Date / Time	MDL	RL	Method	Analyte	Result	Units	Flags	Started
B5F1606-01	6/16/2015 09:50	1.95	2.25	[CALC]	Total Nitrogen	**43.0**	mg/L		06/23/15 08:52
		1.0	1.0	120.1	Specific Conductance (EC)	**868**	umhos/cm		06/16/15 16:48
		1.15	1.25	300.0	Nitrate as N	**43.0**	mg/L		06/16/15 16:05
		5.0	10.0	SM 2540 C	Total Dissolved Solids (TDS)	**611**	mg/L		06/18/15 08:36
		0.1	0.1	SM 4500-H+ B	pH	**7.2**	Std. Units		06/16/15 16:47
		0.80	1.00	M 4500-NH3 B,	Total Kjeldahl Nitrogen	ND	mg/L		06/23/15 08:52
		10.0	10.0	SM2540G	Fixed Dissolved Solids	**316**	mg/L		06/23/15 08:24
		0.64	1.29	SM4500-NH3 C	Ammonia as NH4	ND	mg/L		06/23/15 10:43

Kanti Gandhi
Chemist

Donna Keller
Donna Keller
Laboratory Director

Certification # 2585

Exhibit 12

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

.ort # **B5C0407**

Project: Ground Water Monitoring

Date: 03/31/15

City of Turlock
156 South Broadway, Suite 270
Turlock, CA 95380

Date Rec'd: 03/04/15

CERTIFICATE OF ANALYSIS

Sampler: Wayne Clay

Sample ID: GW-002

Lab ID	Sample Date / Time	MDL	RL	Method	Analyte	Result	Units	Flags	Started
B5C0407-01	3/04/2015 08:20	1.03	1.25	[CALC]	Total Nitrogen	**24.7**	mg/L		03/09/15 12:11
		1.0	1.0	120.1	Specific Conductance (EC)	**778**	umhos/cm		03/04/15 15:04
		1.15	1.25	300.0	Nitrate as N	**23.6**	mg/L		03/04/15 17:29
		5.0	10.0	SM 2540 C	Total Dissolved Solids (TDS)	**540**	mg/L		03/10/15 07:49
		0.1	0.1	SM 4500-H+ B	pH	**7.2**	Std. Units		03/04/15 15:00
		0.80	1.00	M 4500-NH3 B,	Total Kjeldahl Nitrogen	**1.10**	mg/L		03/09/15 12:11
		10.0	10.0	SM2540G	Fixed Dissolved Solids	**356**	mg/L		03/10/15 07:48
		0.64	1.29	SM4500-NH3 C	Ammonia as NH4	ND	mg/L		03/09/15 08:34

Kanti Gandhi
Chemist

Donna Keller
Laboratory Director

Certification # 2585

Exhibit 12

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # A4K1010 **Project: Groundwater Monitoring** **Date:** 11/20/14

City of Turlock
156 South Broadway, Suite 270
Turlock, CA 95380

Date Rec'd: 11/10/14

CERTIFICATE OF ANALYSIS

Sampler: Wayne Clay

Sample ID: GW-002

Lab ID	Sample Date / Time	MDL	RL	Method	Analyte	Result	Units	Flags	Started
A4K1010-01	11/10/2014 11:20	3.10	3.50	[CALC]	Total Nitrogen	**21.1**	mg/L		11/12/14 08:46
		1.0	1.0	120.1	Specific Conductance (EC)	**681**	umhos/cm		11/10/14 16:36
		2.30	2.50	300.0	Nitrate as N	**19.4**	mg/L		11/11/14 08:02
		5.0	10.0	SM 2540 C	Total Dissolved Solids (TDS)	**472**	mg/L		11/11/14 09:10
		0.1	0.1	SM 4500-H+ B	pH	**7.2**	Std. Units		11/10/14 17:39
		0.80	1.00	M 4500-NH3 B,	Total Kjeldahl Nitrogen	**1.70**	mg/L		11/12/14 08:46
		10.0	10.0	SM2540G	Fixed Dissolved Solids	**341**	mg/L		11/11/14 09:08
		0.64	1.29	SM4500-NH3 C	Ammonia as NH4	**1.81**	mg/L		11/19/14 07:59

Sample ID: GW-003

Lab ID	Sample Date / Time	MDL	RL	Method	Analyte	Result	Units	Flags	Started
A4K1010-02	11/10/2014 11:10	1.03	1.25	[CALC]	Total Nitrogen	**4.52**	mg/L		11/12/14 08:46
		1.0	1.0	120.1	Specific Conductance (EC)	**450**	umhos/cm		11/10/14 16:36
		0.23	0.25	300.0	Nitrate as N	**2.32**	mg/L		11/11/14 08:02
		5.0	10.0	SM 2540 C	Total Dissolved Solids (TDS)	**277**	mg/L		11/11/14 09:10
		0.1	0.1	SM 4500-H+ B	pH	**7.0**	Std. Units		11/10/14 17:39
		0.80	1.00	M 4500-NH3 B,	Total Kjeldahl Nitrogen	**2.20**	mg/L		11/12/14 08:46
		10.0	10.0	SM2540G	Fixed Dissolved Solids	**202**	mg/L		11/11/14 09:08
		0.64	1.29	SM4500-NH3 C	Ammonia as NH4	ND	mg/L		11/19/14 07:59

Kanti Gandhi
Chemist

Donna Keller
Donna Keller
Laboratory Director

Certification # 2585

Exhibit 12

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # A4H2014 **Project: Quarterly&Annual Ground Water Monitoring** **Date:** 09/17/14

City of Turlock
156 South Broadway, Suite 270
Turlock, CA 95380

Date Rec'd: 08/20/14

CERTIFICATE OF ANALYSIS

Sampler: David Huff

Sample ID: GW-002

Lab ID	Sample Date / Time	MDL	RL	Method	Analyte	Result	Units	Flags	Started
A4H2014-01	8/20/2014 11:10	3.10	3.50	[CALC]	Total Nitrogen	**22.1**	mg/L		8/26/14 13:59
		1.0	1.0	120.1	Specific Conductance (EC)	**803**	umhos/cm		
		2.00	10.0	300.0	Chloride	**8.87**	mg/L	J	
		2.30	2.50		Nitrate as N	**21.1**	mg/L		
			NA	SM 1030 E	Cation-Anion Balance	**2.23**	% Diff		
		5.0	10.0	SM 2540 C	Total Dissolved Solids (TDS)	**717**	mg/L		
		0.1	0.1	SM 4500-H+ B	pH	**7.2**	Std. Units		
		0.80	1.00	M 4500-NH3 B,	Total Kjeldahl Nitrogen	**1.00**	mg/L		
		1.0	20.0	SM2320B	Bicarbonate Alkalinity as CaCO3	**292**	mg/L		
		1.0	20.0		Carbonate Alkalinity as CaCO3	ND	mg/L		
		1.0	20.0		Hydroxide Alkalinity as CaCO3	ND	mg/L		
		1.0	20.0		Total Alkalinity as CaCO3	**292**	mg/L		
		10.0	10.0	SM2540G	Fixed Dissolved Solids	**372**	mg/L		
		0.64	1.29	SM4500-NH3 C	Ammonia as NH4	ND	mg/L		
		0.005	0.05	SM4500P E	Phosphorus, Total	**0.14**	mg/L		

Cedric Gregory
Chemist

Donna Keller
Laboratory Director

Certification # 2585

Exhibit 12

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

ort # **A4H2014** **Project: Quarterly&Annual Ground Water Monitoring** **Date:** 09/17/14

City of Turlock
156 South Broadway, Suite 270
Turlock, CA 95380

Date Rec'd: 08/20/14

CERTIFICATE OF ANALYSIS

Sampler: David Huff

Sample ID: GW-002

Lab ID	Sample Date / Time	MDL	RL	Method	Analyte	Result	Units	Flags	Started
A4H2014-01	8/20/2014 11:10	0.03	1.00	200.7	Calcium	**106**	mg/L		8/21/14 08:11
		0.90	6.62	200.7	Hardness (as CaCO3)	**366**	mg/L		
		0.20	1.00	200.7	Magnesium	**24.6**	mg/L		
		0.50	1.00		Potassium	**2.40**	mg/L		
		0.30	1.00		Sodium	**7.32**	mg/L		
		20	100	200.8	Boron	**46**	ug/L	J	
		25.0	50.0		Iron	**823**	ug/L		
		1.0	10.0		Manganese	**13.0**	ug/L		

Cedric Gregory
Chemist

Donna Keller
Laboratory Director

Certification # 2585

Exhibit 12

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

ort # A4E1908 **Project: Gound Water Monitoring Wells - Quarterly** **Date:** 05/27/14

City of Turlock
156 South Broadway, Suite 270
Turlock, CA 95380

Date Rec'd: 05/19/14

CERTIFICATE OF ANALYSIS

Sampler: Shawn Davidson

Sample ID: GW-001

Lab ID	Sample Date / Time	MDL	RL	Method	Analyte	Result	Units	Flags	Started
A4E1908-01	5/19/2014 12:55	3.10	3.50	[CALC]	Total Nitrogen	**25.5**	mg/L		5/20/14 07:35
		1.0	1.0	120.1	Specific Conductance (EC)	**1220**	umhos/cm		
		2.30	2.50	300.0	Nitrate as N	**24.1**	mg/L		
		5.0	10.0	SM 2540 C	Total Dissolved Solids (TDS)	**836**	mg/L		
		0.1	0.1	SM 4500-H+ B	pH	**7.5**	Std. Units		
		0.80	1.00	M 4500-NH3 B,	Total Kjeldahl Nitrogen	**1.40**	mg/L		
		10.0	10.0	SM2540G	Fixed Dissolved Solids	**538**	mg/L		
		0.64	1.29	SM4500-NH3 C	Ammonia as NH4	ND	mg/L		

Sample ID: GW-002

Lab ID	Sample Date / Time	MDL	RL	Method	Analyte	Result	Units	Flags	Started
A4E1908-02	5/19/2014 09:46	3.10	3.50	[CALC]	Total Nitrogen	**24.3**	mg/L		5/20/14 07:35
		1.0	1.0	120.1	Specific Conductaoce (EC)	**792**	umhos/cm		
		2.30	2.50	300.0	Nitrate as N	**22.6**	mg/L		
		5.0	10.0	SM 2540 C	Total Dissolved Solids (TDS)	**599**	mg/L		
		0.1	0.1	SM 4500-H+ B	pH	**7.5**	Std. Units		
		0.80	1.00	M 4500-NH3 B,	Total Kjeldahl Nitrogen	**1.70**	mg/L		
		10.0	10.0	SM2540G	Fixed Dissolved Solids	**339**	mg/L		
		0.64	1.29	SM4500-NH3 C	Ammonia as NH4	ND	mg/L		

Cedric Gregory
Chemist

Donna Keller
Laboratory Director

Certification # 2585

Exhibit 12

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # A4C1104 **Project: Groundwater Monitoring** **Date:** 03/20/14

City of Turlock
156 South Broadway, Suite 270
Turlock, CA 95380

Date Rec'd: 03/11/14

CERTIFICATE OF ANALYSIS

Sampler: Scott G. Rohrer

Sample ID: GW-001

Lab ID	Sample Date / Time	MDL	RL	Method	Analyte	Result	Units	Flags	Started
A4C1104-01	3/11/2014 09:15	3.10	3.50	[CALC]	Total Nitrogen	**26.9**	mg/L		3/12/14 07:05
		1.0	1.0	120.1	Specific Conductance (EC)	**1500**	umhos/cm		
		2.30	2.50	300.0	Nitrate as N	**25.9**	mg/L		
		0.80	1.00	351.2	Total Kjeldahl Nitrogen	**1.00**	mg/L		
		5.0	10.0	SM 2540 C	Total Dissolved Solids (TDS)	**723**	mg/L		
		0.1	0.1	SM 4500-H+ B	pH	**7.4**	Std. Units		
		10.0	10.0	SM2540G	Fixed Dissolved Solids	**543**	mg/L		
		0.64	1.29	SM4500-NH3 C	Ammonia as NH4	ND	mg/L		

Sample ID: GW-002

Lab ID	Sample Date / Time	MDL	RL	Method	Analyte	Result	Units	Flags	Started
A4C1104-02	3/11/2014 09:35	3.10	3.50	[CALC]	Total Nitrogen	**25.0**	mg/L		3/12/14 07:05
		1.0	1.0	120.1	Specific Conductance (EC)	**1130**	umhos/cm		
		2.30	2.50	300.0	Nitrate as N	**24.0**	mg/L		
		0.80	1.00	351.2	Total Kjeldahl Nitrogen	**1.00**	mg/L		
		5.0	10.0	SM 2540 C	Total Dissolved Solids (TDS)	**549**	mg/L		
		0.1	0.1	SM 4500-H+ B	pH	**7.2**	Std. Units		
		10.0	10.0	SM2540G	Fixed Dissolved Solids	**408**	mg/L		
		0.64	1.29	SM4500-NH3 C	Ammonia as NH4	ND	mg/L		

Cedric Gregory
Chemist

Donna Keller
Laboratory Director

Certification # 2585

Exhibit 12

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: lab.geo@att.net

ort # **Z3K1809**

Project: Quarterly Groundwater Samples

Date: 11/21/13

Date Rec'd: 11/18/13

City of Turlock
156 South Broadway, Suite 270
Turlock, CA 95380

CERTIFICATE OF ANALYSIS

Sampler: Scott G. Rohrer

Sample ID: GW-002

Lab ID	Sample Date / Time	MDL	RL	Method	Analyte	Result	Units	Flags	Started
Z3K1809-01	11/18/2013 00:00	3.10	3.50	[CALC]	Total Nitrogen	**21.0**	mg/L		11/20/13 07:44
		1.0	1.0	120.1	Specific Conductance (EC)	**965**	umhos/cm		
		2.30	2.50	300.0	Nitrate as N	**21.0**	mg/L		
		0.80	1.00	351.2	Total Kjeldahl Nitrogen	ND	mg/L		
		5.0	10.0	SM 2540 C	Total Dissolved Solids (TDS)	**642**	mg/L		
		0.1	0.1	SM 4500-H+ B	pH	**7.1**	Std. Units		
		10.0	10.0	SM2540G	Fixed Dissolved Solids	**479**	mg/L		
		0.64	1.29	SM4500-NH3 C	Ammonia as NH4	ND	mg/L		

Cedric Gregory
Chemist

Donna Keller
Laboratory Director

Certification # 2585

Exhibit 12

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: lab.geo@att.net

Report # Z3H1201 **Project: Gound Water Monitoring Wells - Quarterly** **Date:** 08/20/13

City of Turlock
156 South Broadway, Suite 270
Turlock, CA 95380

Date Rec'd: 08/12/13

CERTIFICATE OF ANALYSIS

Sampler: John P. Bettencourt

Sample ID: GW-002

Lab ID	Sample Date / Time	MDL	RL	Method	Analyte	Result	Units	Flags	Started
Z3H1201-01	8/12/2013 08:30	3.10	3.50	[CALC]	Total Nitrogen	**12.4**	mg/L		8/13/13 07:55
		1.0	1.0	120.1	Specific Conductance (EC)	**958**	umhos/cm		
		2.30	2.50	300.0	Nitrate as N	**11.6**	mg/L		
		0.80	1.00	351.2	Total Kjeldahl Nitrogen	**0.80**	mg/L	J	
		5.0	10.0	SM 2540 C	Total Dissolved Solids (TDS)	**643**	mg/L		
		0.1	0.1	SM 4500-H+ B	pH	**7.2**	Std. Units		
		10.0	10.0	SM2540G	Fixed Dissolved Solids	**239**	mg/L		
		0.64	1.29	SM4500-NH3 C	Ammonia as NH4	ND	mg/L		

Cedric Gregory
Chemist

Donna Keller
Laboratory Director

Certification # 2585

Exhibit 12

City of Turlock
WATER QUALITY CONTROL LABORATORY
labwqc@turlock.ca.us

MUNICIPAL SERVICES
WATER QUALITY CONTROL

156 S. BROADWAY, SUITE 270, TURLOCK, CALIFORNIA 95380 | PHONE 209-668-5599 EXT 4445 | FAX 209-668-5569

Certifieate of Analysis

Project: Quarterly Groundwater Sampling

Report Date: 8-14-13
Sample ID: GW-002

Date Sampled: 8-12-13
Sampler: John Bettencourt

Method	Reporting Limit	Analyte	Results	Units
SM9221.B	2	MPN -Total Coliform	<2	MPN/100 mls

Jeanette R White
Senior Laboratory Analyst

Elap Certification # 2150

Exhibit 12

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: lab.geo@att.net

port # **Z3E1302** **Project: Gound Water Monitoring Wells - Quarterly** **Date:** 05/29/13

City of Turlock
156 South Broadway, Suite 270
Turlock, CA 95380

Date Rec'd: 05/13/13

CERTIFICATE OF ANALYSIS

Sampler: John P. Bettencourt

Sample ID: GW-002

Lab ID	Sample Date / Time	MDL	RL	Method	Analyte	Result	Units	Flags	Started
Z3E1302-01	5/13/2013 08:50	3.1000	3.50	[CALC]	Total Nitrogen	**10.5**	mg/L		5/14/13 07:31
		1.0000	1.0	120.1	Specific Conductance (EC)	**955**	umhos/cm		5/13/13 11:34
		0.2000	1.00	300.0	Chloride	**17.3**	mg/L		5/13/13 12:45
		2.3000	2.50	300.0	Nitrate as N	**9.17**	mg/L		
		2.6000	10.0	300.0	Sulfate as SO4	**24.7**	mg/L		
		0.8000	1.00	351.2	Total Kjeldahl Nitrogen	**1.30**	mg/L		5/14/13 07:31
			NA	SM 1030 E	Cation-Anion Balance	**0.961**	% Diff		5/20/13 13:30
		5.0000	10.0	SM 2540 C	Total Dissolved Solids (TDS)	**590**	mg/L		5/15/13 14:38
		0.1000	0.1	SM 4500-H+ B	pH	**7.5**	Std. Units		5/13/13 11:34
		1.0000	20.0	SM2320B	Bicarbonate Alkalinity as CaCO3	**424**	mg/L		5/20/13 07:39
		1.0000	20.0	SM2320B	Carbonate Alkalinity as CaCO3	ND	mg/L		
		1.0000	20.0	SM2320B	Hydroxide Alkalinity as CaCO3	ND	mg/L		
		1.0000	20.0	SM2320B	Total Alkalinity as CaCO3	**424**	mg/L		
		10.0000	10.0	SM2540G	Fixed Dissolved Solids	**339**	mg/L		5/20/13 09:24
		0.0300	0.10	SM4500-F C	Fluoride	**0.27**	mg/L		5/29/13 08:37
		0.6400	1.29	SM4500-NH3 C	Ammonia as NH4	ND	mg/L		5/13/13 10:49
		0.0050	0.05	SM4500P E	Phosphorus, Total	**0.11**	mg/L		5/16/13 07:21

Cedric Gregory
Chemist

Donna Keller
Laboratory Director

Certification # 2585

Exhibit 12

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: lab.geo@att.net

ɔort # **Z3E1302** **Project: Gound Water Monitoring Wells - Quarterly** **Date:** 05/29/13

City of Turlock
156 South Broadway, Suite 270
Turlock, CA 95380

Date Rec'd: 05/13/13

CERTIFICATE OF ANALYSIS

Sampler: John P. Bettencourt

Sample ID: GW-002

Lab ID	Sample Date / Time	MDL	RL	Method	Analyte	Result	Units	Flags	Started
Z3E1302-01	5/13/2013 08:50	0.0600	2.00	200.7	Calcium	**139**	mg/L		5/14/13 07:59
		0.9700	9.11	200.7	Hardness (as CaCO3)	**488**	mg/L		
		0.2000	1.00	200.7	Magnesium	**34.6**	mg/L		
		0.5000	1.00	200.7	Potassium	**2.63**	mg/L		
		0.0600	4.28	200.7	Silica (SiO2)	**46.6**	mg/L		5/29/13 08:02
		0.3000	1.00	200.7	Sodium	**11.0**	mg/L		5/14/13 07:59
		20.0000	100	200.8	Boron	**35**	ug/L	J	5/16/13 07:24
		25.0000	50.0	200.8	Iron	**395**	ug/L		
		1.0000	10.0	200.8	Manganese	**9.6**	ug/L	J	

Cedric Gregory
Chemist

Donna Keller
Laboratory Director

Certification # 2585

Exhibit 12

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: lab.geo@att.net

:port # **Z3B1909**

Project: Gound Water Monitoring

Date: 02/27/13

City of Turlock
156 South Broadway, Suite 270
Turlock, CA 95380

Date Rec'd: 02/19/13

CERTIFICATE OF ANALYSIS

Sampler: Marc Gardner

Sample ID: GW-002

Lab ID	Sample Date / Time	MDL	RL	Method	Analyte	Result	Units	Flags	Started
Z3B1909-01	2/19/2013 13:18	3.1000	3.50	[CALC]	Total Nitrogen	**15.9**	mg/L		2/25/13 07:55
		2.3000	2.50	300.0	Nitrate as N	**15.9**	mg/L		2/19/13 15:14
		0.8000	1.00	351.2	Total Kjeldahl Nitrogen	ND	mg/L		2/25/13 07:55
		5.0000	10.0	SM 2540 C	Total Dissolved Solids (TDS)	**725**	mg/L		2/25/13 08:05
		10.0000	10.0	SM2540G	Fixed Dissolved Solids	**539**	mg/L		2/25/13 08:09
		0.6400	1.29	SM4500-NH3 C	Ammonia as NH4	ND	mg/L		2/20/13 08:22

Cedric Gregory
Chemist

Donna Keller
Donna Keller
Laboratory Director

Certification # 2585

Exhibit 12

City of Turlock
Municipal Services
156 S. Broadway Ste. 270
Turlock, CA 95380

Water Quality Laboratory
Phone No. (209) 668-5590
Fax (209) 668-5569
TDD No. 1-800-735-2929

Certificate of Analysis

Project: Groundwater Monitoring

Sample Date: 2-19-13
Sample ID: G.W.W. #2

Method	Reporting Limit	Analyte	Results	Units
		pH	7.08	su
		E.C.	893	uhoms/cm^2
		Elevation		Ft. above sea level
		MPN	<2	MPN

Jeanette R White
Analyst

Dan Madden
Laboratory Director

Exhibit 12

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: lab.geo@att.net

Report # Y2J2904 **Project: Quarterly Groundwater Monitoring** **Date:** 11/13/12

City of Turlock
156 South Broadway, Suite 270
Turlock, CA 95380

Date Rec'd: 10/29/12

CERTIFICATE OF ANALYSIS

Sampler: Duraye Khinoo

Sample ID: GWW-002

Lab ID	Sample Date / Time	MDL	RL	Method	Analyte	Result	Units	Flags	Started
Y2J2904-01	10/29/2012 10:42	3.1000	3.50	[CALC]	Total Nitrogen	**15.2**	mg/L		10/30/12 08:25
		1.0000	1.0	120.1	Specific Conductance (EC)	**881**	umhos/cm		10/29/12 16:15
		0.0300	1.00	200.7	Calcium	**116**	mg/L		10/30/12 07:25
		0.9000	6.62	200.7	Hardness (as CaCO3)	**414**	mg/L		
		0.2000	1.00	200.7	Magnesium	**30.5**	mg/L		
		0.0100	0.05	200.7	Phosphorus	ND	mg/L		10/30/12 12:53
		0.5000	1.00	200.7	Potassium	**3.62**	mg/L		10/30/12 07:25
		0.3000	1.00	200.7	Sodium	**10.8**	mg/L		
		20.0000	100	200.8	Boron	**36**	ug/L	J	11/ 5/12 09:40
		25.0000	50.0	200.8	Iron	**1360**	ug/L		
		1.0000	10.0	200.8	Manganese	**15.5**	ug/L		
		0.2000	1.00	300.0	Chloride	**21.5**	mg/L		10/29/12 16:14
		2.3000	2.50	300.0	Nitrate as N	**15.2**	mg/L		
		0.8000	1.00	351.2	Total Kjeldahl Nitrogen	ND	mg/L		10/30/12 08:25
			NA	SM 1030 E	Cation-Anion Balance	**0.249**	% Diff		11/13/12 08:20
		5.0000	10.0	SM 2540 C	Total Dissolved Solids (TDS)	**624**	mg/L		11/ 1/12 14:38
		0.1000	0.1	SM 4500-H+ B	pH	**7.3**	Std. Units		10/29/12 16:16
		1.0000	20.0	SM2320B	Bicarbonate Alkalinity as CaCO3	**321**	mg/L		10/30/12 06:50
		1.0000	20.0	SM2320B	Carbonate Alkalinity as CaCO3	ND	mg/L		
		1.0000	20.0	SM2320B	Hydroxide Alkalinity as CaCO3	ND	mg/L		
		1.0000	20.0	SM2320B	Total Alkalinity as CaCO3	**321**	mg/L		
		10.0000	10.0	SM2540G	Fixed Dissolved Solids	**465**	mg/L		11/ 1/12 10:45
		0.6400	1.29	SM4500-NH3 C	Ammonia as NH4	ND	mg/L		10/30/12 08:27

Cedric Gregory
Chemist

Donna Keller
Laboratory Director

Certification # 2585

Exhibit 12

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: lab.geo@att.net

Report # Y2J2906 **Project: Quarterly Groundwater Monitoring** **Date:** 11/13/12

City of Turlock
156 South Broadway, Suite 270
Turlock, CA 95380

Date Rec'd: 10/29/12

CERTIFICATE OF ANALYSIS

Sampler: Scott G. Rohrer

Sample ID: GW- 001 - Alternate

Lab ID	Sample Date / Time	RL	Method	Analyte	Result	Units	Notes	Started
Y2J2906-01	10/29/2012 12:55	3.50	[CALC]	Total Nitrogen	**16.6**	mg/L		10/30/12 08:25
		1.0	120.1	Specific Conductance (EC)	**1030**	umhos/cm		10/29/12 16:15
		1.00	200.7	Calcium	**81.4**	mg/L		10/30/12 07:25
		6.62		Hardness (as CaCO3)	**325**	mg/L		
		1.00		Magnesium	**29.6**	mg/L		
		0.05		Phosphorus	ND	mg/L		10/30/12 12:53
		1.00		Potassium	**3.56**	mg/L		10/30/12 07:25
		1.00		Sodium	**74.2**	mg/L		
		100	200.8	Boron	**161**	ug/L		11/ 5/12 09:40
		50.0		Iron	**196**	ug/L		
		10.0		Manganese	ND	ug/L		
		10.0	300.0	Chloride	**55.6**	mg/L		10/29/12 16:14
		2.50		Nitrate as N	**16.6**	mg/L		
		1.00	351.2	Total Kjeldahl Nitrogen	ND	mg/L		10/30/12 08:25
		NA	SM 1030 E	Cation-Anion Balance	**0.585**	% Diff		11/13/12 08:20
		10.0	SM 2540 C	Total Dissolved Solids (TDS)	**684**	mg/L		11/ 1/12 14:38
		0.1	SM 4500-H+ B	pH	**7.5**	Std. Units		10/29/12 16:16
		20.0	SM2320B	Bicarbonate Alkalinity as CaCO3	**298**	mg/L		10/30/12 06:50
		20.0		Carbonate Alkalinity as CaCO3	ND	mg/L		
		20.0		Hydroxide Alkalinity as CaCO3	ND	mg/L		
		20.0		Total Alkalinity as CaCO3	**298**	mg/L		
		10.0	SM2540G	Fixed Dissolved Solids	**566**	mg/L		11/ 1/12 10:45
		1.29	SM4500-NH3 C	Ammonia as NH4	ND	mg/L		10/30/12 08:27

Cedric Gregory
Chemist

Donna Keller
Laboratory Director

Certification # 2585

Exhibit 12

City of Turlock
WATER QUALITY CONTROL LABORATORY
labwqc@turlock.ca.us

MUNICIPAL SERVICES
WATER QUALITY CONTROL

156 S. BROADWAY, SUITE 270, TURLOCK, CALIFORNIA 95380 | PHONE 209-668-5599 EXT 4445 | FAX 209-668-5569

Certificate of Analysis

Project: Groundwater Monitoring

Sample Date: 10-29-12 @ 1042 am
Sample ID: G.W.W. #2

Method	Reporting Limit	Analyte	Results	Units
		MPN	<2	MPN

Jeanette R White 10-31-12
Analyst Date

Exhibit 12

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: lab.geo@att.net

port # Y2H0708 **Project: Gound Water Monitoring Wells - Quarterly** **Date:** 08/14/12

City of Turlock
156 South Broadway, Suite 270
Turlock, CA 95380

Date Rec'd: 08/07/12

CERTIFICATE OF ANALYSIS

Sampler: Scott G. Rohrer

Sample ID: GW-001

Lab ID	Sample Date / Time	MDL	RL	Method	Analyte	Result	Units	Flags	Started
Y2H0708-01	8/07/2012 08:45	3.1000	3.50	[CALC]	Total Nitrogen	**27.4**	mg/L		8/ 9/12 07:46
		2.3000	2.50	300.0	Nitrate as N	**27.4**	mg/L		8/ 7/12 14:57
		0.8000	1.00	351.2	Total Kjeldahl Nitrogen	ND	mg/L		8/ 9/12 07:46
		5.0000	10.0	SM 2540 C	Total Dissolved Solids (TDS)	**741**	mg/L		8/ 9/12 07:47
		10.0000	10.0	SM2540G	Fixed Dissolved Solids	**674**	mg/L		8/13/12 07:50
		0.6400	1.29	SM4500-NH3 C	Ammonia as NH4	ND	mg/L		8/ 8/12 08:29

Sample ID: GW-002

Lab ID	Sample Date / Time	MDL	RL	Method	Analyte	Result	Units	Flags	Started
Y2H0708-02	8/07/2012 09:08	3.1000	3.50	[CALC]	Total Nitrogen	**19.9**	mg/L		8/ 9/12 07:46
		2.3000	2.50	300.0	Nitrate as N	**19.9**	mg/L		8/ 7/12 14:57
		0.8000	1.00	351.2	Total Kjeldahl Nitrogen	ND	mg/L		8/ 9/12 07:46
		5.0000	10.0	SM 2540 C	Total Dissolved Solids (TDS)	**602**	mg/L		8/ 9/12 07:47
		10.0000	10.0	SM2540G	Fixed Dissolved Solids	**502**	mg/L		8/13/12 07:50
		0.6400	1.29	SM4500-NH3 C	Ammonia as NH4	ND	mg/L		8/ 8/12 08:29

Cedric Gregory
Chemist

Donna Keller
Laboratory Director

Certification # 2585

Exhibit 12

City of Turlock
WATER QUALITY CONTROL LABORATORY
labwqc@turlock.ca.us

MUNICIPAL SERVICES
WATER QUALITY CONTROL

156 S. BROADWAY, SUITE 270, TURLOCK, CALIFORNIA 95380 | PHONE 209-668-5599 EXT 4445 | FAX 209-668-5569

Certificate of Analysis

Project: Groundwater Monitoring

Sample Date: 8-7-12
Sample ID: G.W.W. #1

Method	Reporting Limit	Analyte	Results	Units
		pH	7.12	su
		E.C.	1087	uhoms/cm^2
		MPN	<2	MPN

Jeanette R Wheeler 8-15-12
Analyst Date

Exhibit 12

City of Turlock
WATER QUALITY CONTROL LABORATORY
labwqc@turlock.ca.us

MUNICIPAL SERVICES
WATER QUALITY CONTROL

156 S. BROADWAY, SUITE 270, TURLOCK, CALIFORNIA 95380 | PHONE 209-668-5599 EXT 4445 | FAX 209-668-5569

Certificate of Analysis

Project: Groundwater Monitoring

Sample Date: 8-7-12
Sample ID: G.W.W. #2

Method	Reporting Limit	Analyte	Results	Units
		pH	7.03	su
		E.C.	911	uhoms/cm^2
		MPN	<2	MPN

Jeanette R White 8-15-12
Analyst Date

Exhibit 12

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: lab.geo@att.net

Report # Y2E0801 **Project: Monthly Wastewater Samples** **Date:** 05/15/12

City of Turlock
156 South Broadway, Suite 270
Turlock, CA 95380

Date Rec'd: 05/08/12

CERTIFICATE OF ANALYSIS

Sampler: Scott G. Rohrer

Sample ID: GW-001

Lab ID	Sample Date / Time	MDL	RL	Method	Analyte	Result	Units	Flags	Started
Y2E0801-01	5/08/2012 08:20	3.1000	3.50	[CALC]	Total Nitrogen	**24.1**	mg/L		5/14/12 07:55
		2.3000	2.50	300.0	Nitrate as N	**24.1**	mg/L		5/ 8/12 14:37
		0.8000	1.00	351.2	Total Kjeldahl Nitrogen	ND	mg/L		5/14/12 07:55
		5.0000	10.0	SM 2540 C	Total Dissolved Solids (TDS)	**806**	mg/L		5/14/12 08:08
		10.0000	10.0	SM2540G	Fixed Dissolved Solids	**516**	mg/L		5/14/12 08:25
		0.6400	1.29	SM4500-NH3 C	Ammonia as NH4	ND	mg/L		5/14/12 07:52

Sample ID: GW-002

Lab ID	Sample Date / Time	MDL	RL	Method	Analyte	Result	Units	Flags	Started
Y2E0801-02	5/08/2012 08:40	3.1000	3.50	[CALC]	Total Nitrogen	**12.4**	mg/L		5/14/12 07:55
		2.3000	2.50	300.0	Nitrate as N	**12.4**	mg/L		5/ 8/12 14:37
		0.8000	1.00	351.2	Total Kjeldahl Nitrogen	ND	mg/L		5/14/12 07:55
		5.0000	10.0	SM 2540 C	Total Dissolved Solids (TDS)	**686**	mg/L		5/14/12 08:08
		10.0000	10.0	SM2540G	Fixed Dissolved Solids	**478**	mg/L		5/14/12 08:25
		0.6400	1.29	SM4500-NH3 C	Ammonia as NH4	ND	mg/L		5/14/12 07:52

Cedric Gregory
Chemist

Donna Keller
Laboratory Director

Certification # 2585

Exhibit 12

City of Turlock
Municipal Services
156 S. Broadway Ste. 270
Turlock, CA 95380

Water Quality Laboratory
Phone No. (209) 668-5590
Fax (209) 668-5569
TDD No. 1-800-735-2929

Certificate of Analysis

Project: Groundwater Monitoring

Sample Date: 5-8-12
Sample ID: G.W.W. #1

Method	Reporting Limit	Analyte	Results	Units
		pH	7.26	su
		E.C.	1098	uhoms/cm^2
		Elevation		Ft. above sea level
		MPN	<2	MPN

Jeanette R White
Analyst

Dan Madden
Laboratory Director

Exhibit 12

City of Turlock
Municipal Services
156 S. Broadway Ste. 270
Turlock, CA 95380

Water Quality Laboratory
Phone No. (209) 668-5590
Fax (209) 668-5569
TDD No. 1-800-735-2929

Certificate of Analysis

Project: Groundwater Monitoring

Sample Date: 5-8-12
Sample ID: G.W.W. #2

Method	Reporting Limit	Analyte	Results	Units
		pH	7.32	su
		E.C.	834	uhoms/cm^2
		Elevation		Ft. above sea level
		MPN	<2	MPN

Jeanette R White
Analyst

Dan Madden
Laboratory Director

Exhibit 12

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 668-8516
email: lab.geo@att.net

Report # Y2A3107

Project: Gound Water Monitoring Wells - Quarterly

Date: 02/09/12

Date Rec'd: 01/31/12

City of Turlock
156 South Broadway, Suite 270
Turlock, CA 95380

CERTIFICATE OF ANALYSIS

Sampler: Scott G. Rohrer

Sample ID: GW-001

Lab ID	Sample Date / Time	MDL	RL	Method	Analyte	Result	Units	Flags	Started
Y2A3107-01	1/31/2012 08:18	3.1000	3.50	[CALC]	Total Nitrogen	**30.2**	mg/L		2/ 1/12 07:45
		2.3000	2.50	300.0	Nitrate as N	**29.2**	mg/L		1/31/12 15:09
		0.8000	1.00	351.2	Total Kjeldahl Nitrogen	**1.00**	mg/L		2/ 1/12 07:45
		5.0000	10.0	SM 2540 C	Total Dissolved Solids (TDS)	**768**	mg/L		2/ 1/12 08:08
		10.0000	10.0	SM2540G	Fixed Dissolved Solids	**616**	mg/L		2/ 1/12 10:07
		0.6400	1.29	SM4500-NH3 C	Ammonia as NH4	ND	mg/L		2/ 6/12 07:36

Sample ID: GW-002

Lab ID	Sample Date / Time	MDL	RL	Method	Analyte	Result	Units	Flags	Started
Y2A3107-02	1/31/2012 08:35	3.1000	3.50	[CALC]	Total Nitrogen	**17.9**	mg/L		2/ 1/12 07:45
		2.3000	2.50	300.0	Nitrate as N	**16.7**	mg/L		1/31/12 15:09
		0.8000	1.00	351.2	Total Kjeldahl Nitrogen	**1.20**	mg/L		2/ 1/12 07:45
		5.0000	10.0	SM 2540 C	Total Dissolved Solids (TDS)	**565**	mg/L		2/ 1/12 08:08
		10.0000	10.0	SM2540G	Fixed Dissolved Solids	**439**	mg/L		2/ 1/12 10:07
		0.6400	1.29	SM4500-NH3 C	Ammonia as NH4	ND	mg/L		2/ 6/12 07:36

Cedric Gregory
Chemist

Donna Keller
Laboratory Director

Certification # 2585

Exhibit 12

City of Turlock
Municipal Services
156 S. Broadway Ste. 270
Turlock, CA 95380

Water Quality Laboratory
Phone No. (209) 668-5590
Fax (209) 668-5569
TDD No. 1-800-735-2929

Certificate of Analysis

Project: Groundwater Monitoring

Sample Date: 1-31-12
Sample ID: G.W.W. #1 @0818

Method	Reporting Limit	Analyte	Results	Units
		pH	~~6.95~~ 7.30	su
		E.C.	1229	uhoms/cm^2
		Elevation	77.28	Ft. above sea level
		MPN	<2	MPN

Analyst

Dan Madden
Laboratory Director

Exhibit 12

EXCELCHEM
Environmental Labs

1135 W Sunset Boulevard
Suite A
Rocklin, CA 95765
Phone# 916-543-4445
Fax# 916-543-4449

ELAP Certificate No. : 2119

25 November 2015

Girma Getachew

RWQC Central Valley

11020 Sun Center Dr. #200

Rancho Cordova, CA 95670

RE: None

Work order number:1511145

Enclosed are the results of analyses for samples received by the laboratory on 11/20/15 19:14. All Quality Control results are within acceptable limits except where noted as a case narrative. If you have any questions concerning this report, please feel free to contact the laboratory.

Sincerely,

John Somers, Lab Director

Exhibit 12

Excelchem Environmental Labs

RWQC Central Valley 11020 Sun Center Dr. #200 Rancho Cordova, CA 95670	Project: Project Number: Project Manager:	None [none] Girma Getachew	Date Reported: 11/25/15 15:37

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
#1 Lagoon	1511145-01	Water	11/20/15 12:15	11/20/15 19:14
#2 TID Canal South @ Lagoon	1511145-02	Water	11/20/15 12:17	11/20/15 19:14
#3 Harding/praire flower	1511145-03	Water	11/20/15 13:19	11/20/15 19:14
#4 Harding/praire flower	1511145-04	Water	11/20/15 13:27	11/20/15 19:14
#5 Harding/praire flower	1511145-05	Water	11/20/15 13:34	11/20/15 19:14
#6 Canal	1511145-06	Water	11/20/15 14:35	11/20/15 19:14
#7 Wastewater	1511145-07	Water	11/20/15 14:39	11/20/15 19:14
#8 Wellwater	1511145-08	Water	11/20/15 15:03	11/20/15 19:14
#9 Wellwater	1511145-09	Water	11/20/15 15:19	11/20/15 19:14

Excelchem Environmental Lab.

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.

Laboratory Representative

Exhibit 12

Excelchem Environmental Labs

RWQC Central Valley 11020 Sun Center Dr. #200 Rancho Cordova, CA 95670	Project: Project Number: Project Manager:	None [none] Girma Getachew	Date Reported: 11/25/15 15:37

#1 Lagoon
1511145-01 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
Ion Chromatography										
Nitrate as Nitrogen	ND	1.13	0.09	mg/L	10	AYK0181	11/22/15	11/22/15	EPA 300.0	
Wet Chemistry										
Ammonia as N	**104**	10.0	4.00	mg/L	100	AYK0209	11/24/15	11/25/15	SM 4500-NH3 B/H	QC-6
Phosphorus	**5.90**	0.15	0.14	"	1	AYK0190	11/24/15	11/24/15	SM-4500P	

Excelchem Environmental Lab.

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.

Laboratory Representative

Exhibit 12

Excelchem Environmental Labs

RWQC Central Valley 11020 Sun Center Dr. #200 Rancho Cordova, CA 95670	Project: Project Number: Project Manager:	None [none] Girma Getachew	Date Reported: 11/25/15 15:37

#2 TID Canal South @ Lagoon
1511145-02 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
Ion Chromatography										
Nitrate as Nitrogen	ND	1.13	0.09	mg/L	10	AYK0181	11/22/15	11/22/15	EPA 300.0	
Wet Chemistry										
Ammonia as N	**115**	10.0	4.00	mg/L	100	AYK0209	11/24/15	11/25/15	SM 4500-NH3 B/H	QC-6
Phosphorus	**4.30**	0.15	0.14	"	1	AYK0190	11/24/15	11/24/15	SM-4500P	

Excelchem Environmental Lab.

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.

Laboratory Representative

Exhibit 12

Excelchem Environmental Labs

RWQC Central Valley 11020 Sun Center Dr. #200 Rancho Cordova, CA 95670	Project: Project Number: Project Manager:	None [none] Girma Getachew	Date Reported: 11/25/15 15:37

#3 Harding/praire flower
1511145-03 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
Ion Chromatography										
Nitrate as Nitrogen	**9.45**	1.13	0.09	mg/L	10	AYK0181	11/22/15	11/22/15	EPA 300.0	
Wet Chemistry										
Ammonia as N	**8.53**	1.00	0.400	mg/L	10	AYK0209	11/24/15	11/25/15	SM 4500-NH3 B/H	
Phosphorus	**8.30**	0.15	0.14	"	1	AYK0190	11/24/15	11/24/15	SM-4500P	

Excelchem Environmental Lab.

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.

Laboratory Representative

Exhibit 12

Excelchem Environmental Labs

RWQC Central Valley 11020 Sun Center Dr. #200 Rancho Cordova, CA 95670	Project: Project Number: Project Manager:	None [none] Girma Getachew	Date Reported: 11/25/15 15:37

#4 Harding/praire flower
1511145-04 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
Ion Chromatography										
Nitrate as Nitrogen	**1.21**	1.13	0.09	mg/L	10	AYK0181	11/22/15	11/22/15	EPA 300.0	
Wet Chemistry										
Ammonia as N	**52.8**	10.0	4.00	mg/L	100	AYK0209	11/24/15	11/25/15	SM 4500-NH3 B/H	QC-6
Phosphorus	**6.20**	0.15	0.14	"	1	AYK0190	11/24/15	11/24/15	SM-4500P	

Excelchem Environmental Lab.

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.

Laboratory Representative

Exhibit 12

Excelchem Environmental Labs

RWQC Central Valley 11020 Sun Center Dr. #200 Rancho Cordova, CA 95670	Project: Project Number: Project Manager:	None [none] Girma Getachew	Date Reported: 11/25/15 15:37

#5 Harding/praire flower
1511145-05 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
Ion Chromatography										
Nitrate as Nitrogen	**4.60**	1.13	0.09	mg/L	10	AYK0181	11/22/15	11/22/15	EPA 300.0	
Wet Chemistry										
Ammonia as N	**35.3**	1.00	0.400	mg/L	10	AYK0209	11/24/15	11/25/15	SM 4500-NH3 B/H	
Phosphorus	**7.00**	0.15	0.14	"	1	AYK0190	11/24/15	11/24/15	SM-4500P	

Excelchem Environmental Lab.

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Laboratory Representative

Exhibit 12

Excelchem Environmental Labs

RWQC Central Valley 11020 Sun Center Dr. #200 Rancho Cordova, CA 95670	Project: Project Number: Project Manager:	None [none] Girma Getachew	Date Reported: 11/25/15 15:37

#6 Canal
1511145-06 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
Ion Chromatography										
Nitrate as Nitrogen	**6.81**	0.11	0.009	mg/L	1	AYK0181	11/22/15	11/22/15	EPA 300.0	
Wet Chemistry										
Ammonia as N	**0.135**	0.100	0.0400	mg/L	1	AYK0209	11/24/15	11/25/15	SM 4500-NH3 B/H	QC-6
Phosphorus	ND	0.15	0.14	"	1	AYK0190	11/24/15	11/24/15	SM-4500P	

Excelchem Environmental Lab.

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.

Laboratory Representative

Exhibit 12

Excelchem Environmental Labs

RWQC Central Valley 11020 Sun Center Dr. #200 Rancho Cordova, CA 95670	Project: Project Number: Project Manager:	None [none] Girma Getachew	Date Reported: 11/25/15 15:37

#7 Wastewater
1511145-07 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
Ion Chromatography										
Nitrate as Nitrogen	ND	1.13	0.09	mg/L	10	AYK0181	11/22/15	11/22/15	EPA 300.0	
Wet Chemistry										
Ammonia as N	**99.5**	10.0	4.00	mg/L	100	AYK0209	11/24/15	11/25/15	SM 4500-NH3 B/H	QC-6
Phosphorus	**4.40**	0.15	0.14	"	1	AYK0190	11/24/15	11/24/15	SM-4500P	

Excelchem Environmental Lab.

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.

Laboratory Representative

Exhibit 12

Excelchem Environmental Labs

RWQC Central Valley	Project:	None	
11020 Sun Center Dr. #200	Project Number:	[none]	Date Reported:
Rancho Cordova, CA 95670	Project Manager:	Girma Getachew	11/25/15 15:37

#8 Wellwater
1511145-08 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
Ion Chromatography										
Nitrate as Nitrogen	**13.0**	1.13	0.09	mg/L	10	AYK0181	11/22/15	11/22/15	EPA 300.0	
Wet Chemistry										
Ammonia as N	ND	0.100	0.0400	mg/L	1	AYK0209	11/24/15	11/24/15	SM 4500-NH3 B/H	
Phosphorus	ND	0.15	0.14	"	1	AYK0190	11/24/15	11/24/15	SM-4500P	

Excelchem Environmental Lab.

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.

Laboratory Representative

Exhibit 12

Excelchem Environmental Labs

RWQC Central Valley 11020 Sun Center Dr. #200 Rancho Cordova, CA 95670	Project: Project Number: Project Manager:	None [none] Girma Getachew	Date Reported: 11/25/15 15:37

#9 Wellwater
1511145-09 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
Ion Chromatography										
Nitrate as Nitrogen	**21.3**	1.13	0.09	mg/L	10	AYK0181	11/22/15	11/22/15	EPA 300.0	
Wet Chemistry										
Ammonia as N	ND	0.100	0.0400	mg/L	1	AYK0209	11/24/15	11/25/15	SM 4500-NH3 B/H	QC-6
Phosphorus	**0.19**	0.15	0.14	"	1	AYK0190	11/24/15	11/24/15	SM-4500P	

Excelchem Environmental Lab.

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Laboratory Representative

Exhibit 12

Excelchem Environmental Labs

RWQC Central Valley 11020 Sun Center Dr. #200 Rancho Cordova, CA 95670	Project: Project Number: Project Manager:	None [none] Girma Getachew	Date Reported: 11/25/15 15:37

Ion Chromatography - Quality Control

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch AYK0181 - EPA 300.0											
Blank (AYK0181-BLK1)					Prepared & Analyzed: 11/22/15						
Nitrate as Nitrogen	ND	0.11		mg/L							
LCS (AYK0181-BS1)					Prepared & Analyzed: 11/22/15						
Nitrate as Nitrogen	2.21	0.11		mg/L	2.26		98.0	90-110			
LCS Dup (AYK0181-BSD1)					Prepared & Analyzed: 11/22/15						
Nitrate as Nitrogen	2.18	0.11		mg/L	2.26		96.5	90-110	1.52	20	
Duplicate (AYK0181-DUP1)			**Source: 1511145-06**		Prepared & Analyzed: 11/22/15						
Nitrate as Nitrogen	6.79	0.11		mg/L		6.81			0.329	20	
Matrix Spike (AYK0181-MS1)			**Source: 1511145-06**		Prepared & Analyzed: 11/22/15						
Nitrate as Nitrogen	9.36	0.11		mg/L	2.26	6.81	113	75-125			
Matrix Spike Dup (AYK0181-MSD1)			**Source: 1511145-06**		Prepared & Analyzed: 11/22/15						
Nitrate as Nitrogen	9.42	0.11		mg/L	2.26	6.81	116	75-125	0.671	20	

Excelchem Environmental Lab.

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Laboratory Representative

Exhibit 12

Excelchem Environmental Labs

RWQC Central Valley 11020 Sun Center Dr. #200 Rancho Cordova, CA 95670	Project: Project Number: Project Manager:	None [none] Girma Getachew	Date Reported: 11/25/15 15:37

Wet Chemistry - Quality Control

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch AYK0190 - SM-4500P											
Blank (AYK0190-BLK1)					Prepared & Analyzed: 11/24/15						
Phosphorus	ND	0.15		mg/L							
LCS (AYK0190-BS1)					Prepared & Analyzed: 11/24/15						
Phosphorus	0.720	0.15		mg/L	0.652		110	80-120			
LCS Dup (AYK0190-BSD1)					Prepared & Analyzed: 11/24/15						
Phosphorus	0.700	0.15		mg/L	0.652		107	80-120	2.82	20	
Duplicate (AYK0190-DUP1)			**Source: 1511145-09**		Prepared & Analyzed: 11/24/15						
Phosphorus	0.200	0.15		mg/L		0.190			5.13	20	
Matrix Spike (AYK0190-MS1)			**Source: 1511145-09**		Prepared & Analyzed: 11/24/15						
Phosphorus	0.840	0.15		mg/L	0.652	0.190	99.7	80-120			
Matrix Spike Dup (AYK0190-MSD1)			**Source: 1511145-09**		Prepared & Analyzed: 11/24/15						
Phosphorus	0.820	0.15		mg/L	0.652	0.190	96.6	80-120	2.41	20	
Batch AYK0209 - SM 4500-NH3 B/H											
Blank (AYK0209-BLK1)					Prepared & Analyzed: 11/24/15						
Ammonia as N	ND	0.100		mg/L							
LCS (AYK0209-BS1)					Prepared: 11/24/15 Analyzed: 11/25/15						
Ammonia as N	1.99	0.100		mg/L	2.00		99.6	85-115			
LCS Dup (AYK0209-BSD1)					Prepared: 11/24/15 Analyzed: 11/25/15						
Ammonia as N	2.02	0.100		mg/L	2.00		101	85-115	1.10	20	

Excelchem Environmental Lab.

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Laboratory Representative

Exhibit 12

Excelchem Environmental Labs

RWQC Central Valley	Project:	None	
11020 Sun Center Dr. #200	Project Number:	[none]	Date Reported:
Rancho Cordova, CA 95670	Project Manager:	Girma Getachew	11/25/15 15:37

Wet Chemistry - Quality Control

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch AYK0209 - SM 4500-NH3 B/H											
Matrix Spike (AYK0209-MS1)			**Source: 1511145-09**		Prepared & Analyzed: 11/24/15						
Ammonia as N	1.96	0.100		mg/L	2.00	0.0950	93.2	75-125			
Matrix Spike Dup (AYK0209-MSD1)			**Source: 1511145-09**		Prepared & Analyzed: 11/24/15						
Ammonia as N	1.94	0.100		mg/L	2.00	0.0950	92.4	75-125	0.871	20	

Excelchem Environmental Lab.

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Laboratory Representative

Exhibit 12

Excelchem Environmental Labs

RWQC Central Valley 11020 Sun Center Dr. #200 Rancho Cordova, CA 95670	Project: Project Number: Project Manager:	None [none] Girma Getachew	Date Reported: 11/25/15 15:37

Notes and Definitions

QC-6 This sample was originally analyzed within the hold time. The initial results exceeded the calibrated range of the instrument, and the sample was re-analyzed outside of the hold time at a dilution. These results are confirmed by the original analyses.

ND Analyte not detected at reporting limit.

NR Not reported

Analysis Method	Prep Method
EPA 8260, EPA 8021/8015M	EPA 5030B
EPA 8270, EPA 8081, EPA 8082, EPA 8141, EPA 8015M (extractable)	Water - EPA 3510C, Soil- EPA 3550B
Metals	Water- 3005A, Soil- 3050B
TCLP	EPA 1311
Not Specified	Same as Analysis Method

Excelchem Environmental Lab.

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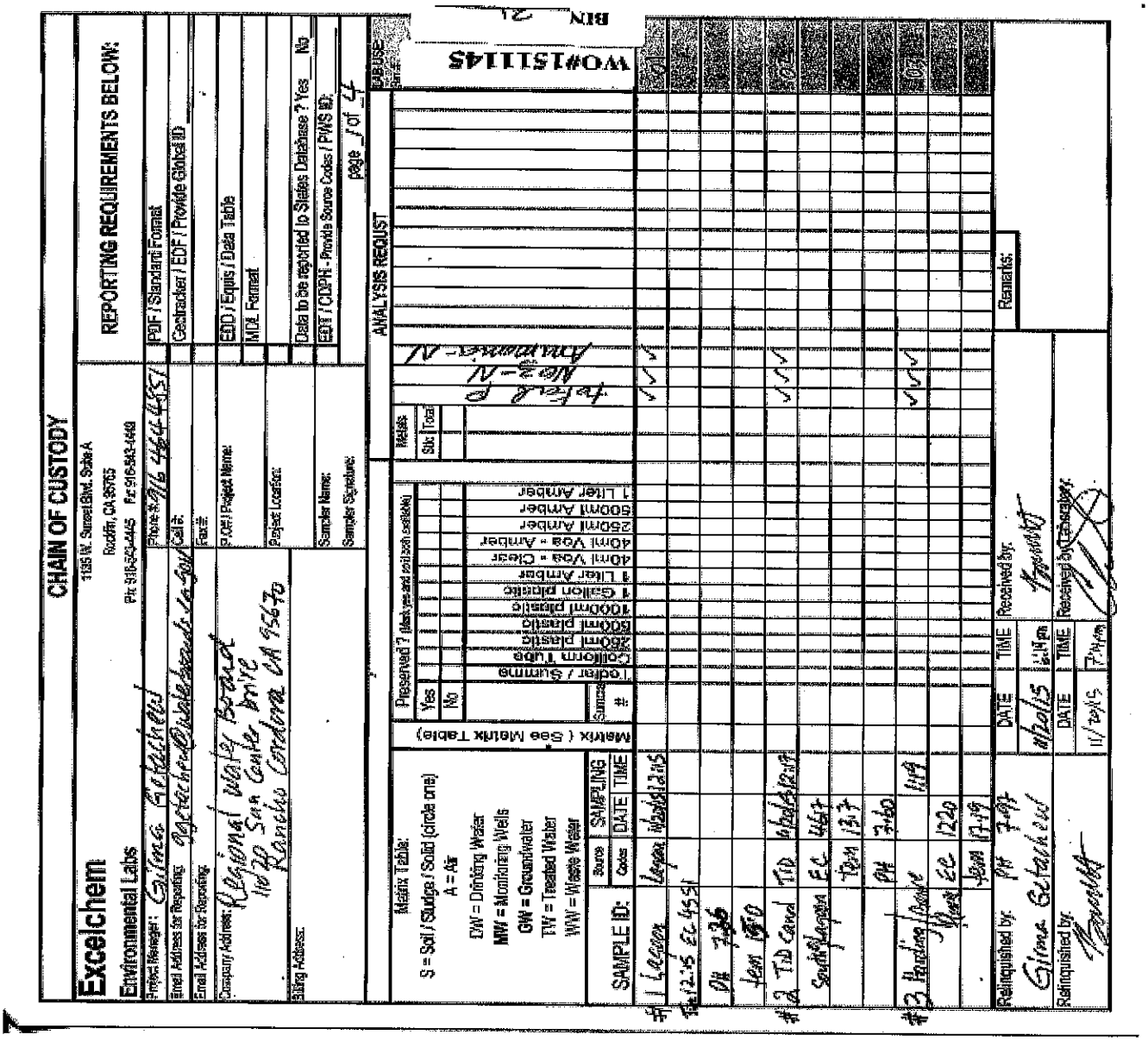
Laboratory Representative

Exhibit 12

Excelchem Environmental Labs

RWQC Central Valley 11020 Sun Center Dr. #200 Rancho Cordova, CA 95670	Project: Project Number: Project Manager:	None [none] Girma Getachew	Date Reported: 11/25/15 15:37



CHAIN OF CUSTODY

Excelchem Environmental Labs
1135 W. Sunset Blvd. Suite A
Rocklin, CA 95765
Ph: 916-543-4445 Fax 916-543-4449

REPORTING REQUIREMENTS BELOW:

Project Manager: Girma Getachew
Email Address for Reporting: getachew@rwqcwatershed.com
Email Address for Reporting:
Company Address: Regional Water Board 11020 Sun Center Drive Rancho Cordova CA 95670
Billing Address:
Phone # 916 464 4551
Cell #:
Fax #:
PO#/ Project Name:
Project Location:
Sampler Name:
Sampler Signature:

PDF / Standard Format
Centracker / EDF / Provide Global ID
EDD / Equis / Data Table
MDL Format
Data to be reported to Stateis Database ? Yes No
EDF / CDPH - Provide Source Codes / PWS ID:
page 1 of 4

ANALYSIS REQUEST

Matrix Table:
S = Soil / Sludge / Solid (circle one)
A = Air
DW = Drinking Water
MW = Monitoring Wells
GW = Groundwater
TW = Treated Water
WW = Waste Water

Matrix (See Matrix Table)

Preserved ? (Mark yes and add lab number)

	Yes	No	Summa #
Tedlar / Summa			
Collform Tube			
250ml Plastic			
500ml Plastic			
1000ml Plastic			
1 Gallon plastic			
1 Liter Amber			
40ml Vog - Clear			
40ml Vog - Amber			
250ml Amber			
500ml Amber			
1 Liter Amber			

Metals: Sb | Total

Field Filtered - Metals - Analyzed

WO#1511145

LABS USE ONLY

BIN 21

SAMPLE ID:	Source Codes	SAMPLING DATE	SAMPLING TIME	Matrix	Preserved ?	Metals Sb	Total	Field Filtered - Metals - Analyzed	
#1 Lagoon	Lagoon	11/20/15						✓✓	
Temp 12.5 EC 4551									
pH 7.36									
Temp 13.0									
#2 Tub Canal	TCD	11/20/15	11:17					✓✓	
South Lagoon	EC	4457							
Temp 13.7									
pH 7.60									
#3 Pond / Drain			11:19					✓✓	
Weed	EC	1220							
Temp 17.19									

Remarks:

Relinquished by: Girma Getachew — DATE 11/20/15 — TIME 2:19pm — Received by: [signature]

Relinquished by: [signature] — DATE 11/20/15 — TIME 7:14pm — Received by Laboratory: [signature]

Excelchem Environmental Lab.

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.

Laboratory Representative

Exhibit 12

Excelchem Environmental Labs

RWQC Central Valley 11020 Sun Center Dr. #200 Rancho Cordova, CA 95670	Project: Project Number: Project Manager:	None [none] Girma Getachew	Date Reported: 11/25/15 15:37

CHAIN OF CUSTODY

Excelchem Environmental Labs
1136 W. Burnett Blvd., Suite A
Roseville, CA 95678
Ph: 916-843-4445 Fx: 916-843-4446

Project Manager: Girma Getachew
Email Address for Reporting: getachew@rwqcwaterboards.ca.gov
Email Address for Reporting:
Company Address: Regional Water Board Irrig 11020 Sun Center Drive Rancho Cordova CA 95670
Billing Address:
Phone #: 916 464 4651
Cell #:
Fax #:
Project Name:
Project Location:
Sampler Name:
Sampler Signature:

REPORTING REQUIREMENTS BELOW:
PDF / Standard Format
Geotracker / EDF / Provide Global ID
EDD / Equis / Data Table
MDL Format
Data to be reported to States Database ? Yes ___ No ___
EDT / CDPH - Provide Source Codes / PWS ID:
page 2 of 4

ANALYSIS REQUEST

Matrix Table:
S = Soil / Sludge / Solid (circle one)
A = Air
DW = Drinking Water
MW = Monitoring Wells
GW = Groundwater
TW = Treated Water
WW = Waste Water

Preserved ? (check passed on Data sheet)
Yes
No

Metals
Site Total

WO# 151115

BIN 21

SAMPLE ID:	Source Codes	SAMPLING DATE	SAMPLING TIME	Matrix (See Matrix Table)	Summa #	Tedlar / Summa	Coliform Tube	250ml plastic	500ml plastic	1000ml plastic	1 Gallon plastic	1 Liter Amber	40ml VOA - Clear	40ml VOA - Amber	250ml Amber	500ml Amber	1 Liter Amber	Metals Site Total												
#4 Hardin Water		11/20/15	1127																											
Temp	EC		2500																											
Temp			1506																											
pH			1791																											
#5 Hardin Drain			1134																											
Temp	EC		1720																											
Temp			16.3																											
pH			9.88																											

Remarks:

Relinquished by:	DATE	TIME	Received by:
Girma Getachew	11/20/15	1730	
Relinquished by:	DATE	TIME	Received by Laboratory:
	11/20/15	1730	

Excelchem Environmental Lab.

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.

Laboratory Representative

Exhibit 12

RWQC Central Valley 11020 Sun Center Dr. #200 Rancho Cordova, CA 95670	Project: Project Number: Project Manager:	None [none] Girma Getachew	Date Reported: 11/25/15 15:37

CHAIN OF CUSTODY

Excelchem Environmental Labs
1135 W. Sunset Blvd, Suite A
Rocklin, CA 95765
Ph: 916-543-4445 Fx: 916-543-4449

Project Manager: Girma Getachew
Phone #: 916 464 4851
Email Address for Reporting: ggetachew@waterboards.ca.gov
Cell #:
Email Address for Reporting:
Fax #:
Company Address: Regional Water Board, 11020 Sun Center Drive, Rancho Cordova CA 95670
P.O# / Project Name:
Project Location:
Billing Address:
Sampler Name:
Sampler Signature:

REPORTING REQUIREMENTS BELOW:
- PDF / Standard Format
- Geotracker / EDF / Provide Global ID ____
- EDD / Equis / Data Table
- MDL Format
- Data to be reported to States Database ? Yes __ No __
- EDT / CDPH - Provide Source Codes / PWS ID: ____

page 3 of 4

LAB USE: WO# 1511115 BIN 21

Matrix Table:
S = Soil / Sludge / Solid (circle one)
A = Air
DW = Drinking Water
MW = Monitoring Wells
GW = Groundwater
TW = Treated Water
WW = Waste Water

Preserved ? (Mark yes and no if both available) Yes / No

Containers: Tedlar / Summa; Coliform Tube; 250ml plastic; 500ml plastic; 1000ml plastic; 1 Gallon plastic; 1 Liter Amber; 40ml Voa - Clear; 40ml Voa - Amber; 250ml Amber; 500ml Amber; 1 Liter Amber

ANALYSIS REQUEST: Metals (Stic / Total); TP; TKN; NO3-N; Ammonia-N

SAMPLE ID:	Source Codes	SAMPLING DATE	SAMPLING TIME	TP	TKN	NO3-N	Ammonia-N	LAB USE
#6 Canal		11/20	2:35	✓	✓	✓	✓	06
EC	408							
temp	14.4							
pH	8.43							
#7 Wastewater			2:39	✓		✓	✓	07
EC	4465							
temp	17.4							
pH	8.00							

Relinquished by:	DATE	TIME	Received by:
Girma Getachew	11/20/15	6:19 pm	[signature]
[signature]	11/20/15	7 PM	Received by Laboratory: [signature]

Remarks:

Excelchem Environmental Lab.

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.

[signature]

Laboratory Representative

Exhibit 12

Excelchem Environmental Labs

RWQC Central Valley 11020 Sun Center Dr. #200 Rancho Cordova, CA 95670	Project: Project Number: Project Manager:	None [none] Girma Getachew	Date Reported: 11/25/15 15:37

CHAIN OF CUSTODY

Excelchem Environmental Labs

1835 W. Sunset Blvd. Suite A
Rocklin, CA 95765
Ph: 916-543-4435 Fax: 916-543-4499

Project Manager: Girma Getachew
Phone #: 916 852-4837
Email Address for Reporting: ggetachew@rwqcwatershed.ca.gov
Cell #:
Email Address for Reporting:
Fax #:
Company Address: Regional Water Board 11020 Sun Center Drive Rancho Cordova CA 95670
P.O# / Project Name:
Billing Address:
Project Location:
Sampler Name:
Sampler Signature:

REPORTING REQUIREMENTS BELOW:

PDF / Standard Format
Geotracker / EDF / Provide Global ID
ECDD / Equis / Data Table
MDL Format
Data to be reported to States Database ? Yes ___ No
EDT / CDPH - Provide Source Codes / PWS ID:

page 4 of 4

ANALYSIS REQUEST

Matrix Table:
S = Soil / Sludge / Solid (circle one)
A = Air
DW = Drinking Water
MW = Monitoring Wells
GW = Groundwater
TW = Treated Water
WW = Waste Water

Preserved ? (Yes, see ice / Frozen available)
Yes
No

Tedlar / Summa
Calif. Tube
250ml plastic
500ml plastic
1000ml plastic
1 Gallon plastic
1 Liter Amber
40ml Vog - Clear
40ml Vog - Amber
250ml Amber
500ml Amber
1 Liter Amber

Metals
Stc Total

SAMPLE ID:	Source	SAMPLING DATE	SAMPLING TIME	Summa #	Tedlar / Summa	Calif. Tube	250ml plastic	500ml plastic	1000ml plastic	1 Gallon plastic	1 Liter Amber	40ml Vog - Clear	40ml Vog - Amber	250ml Amber	500ml Amber	1 Liter Amber	Metals Stc Total											
8 Midwinter	Water	11/20/15	3:03																									
EC		1393																										
Temp		19.6																										
pH		7.76																										
9 Midwinter	Water	11/20/15	3:19																									
EC		1423																										
Temp		18.3																										
pH		7.95																										

Total P
Metals - N
Ammonia - N

Relinquished by: Girma Getachew DATE 11/20/15 TIME 5:14pm Received by: [signature]
Relinquished by: [signature] DATE 11/20/15 TIME 7:15pm Received by Laboratory: [signature]

Remarks:

WO# 15N145

BIN 21

Excelchem Environmental Lab.

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.

Laboratory Representative

Exhibit 12

Excelchem Environmental Labs

RWQC Central Valley 11020 Sun Center Dr. #200 Rancho Cordova, CA 95670	Project: Project Number: Project Manager:	None [none] Girma Getachew	Date Reported: 11/25/15 15:37

Sample Integrity

WORK ORDER _1511145_

Date Received:__11/20/15__

Section 1 – Sample Arrival Info.

Sample Transport: ONTRAC UPS USPS Walk-In [EXCELCHEM Courier] Fed-Ex Other:_____

Transported In: [Ice Chest] Box Hand

Describe type of packing materials: Bubble Wrap Foam Packing Peanuts Paper Other:_____

Has chilling process begun? [Y] N Samples Received: Chilled to Touch / Ambient / [On Ice]

Temperature of Samples (°C): __5__ Ice Chest Temperature(s) (°C): ___2___

Section 2 – Bottle/Analysis Info.

	Yes	No	N/A	Comments
Did all bottles arrive unbroken and intact?	X			
Did all bottle labels agree with COC?		X		Will use COC info. for sample date and time.
Were correct containers used for the tests requested?	X			
Were correct preservations used for the tests requested?		X		Will preserve samples in lab.
Was a sufficient amount of sample sent for tests indicated?	X			
Were bubbles present in VOA Vials?: (Volatile Methods Only)			X	

Section 3 – Summa/Flow regulator Info.

Used Summa#:	N/A
Unused Summa#:	
Cleaning Summa#:	
Regulator#:	
Was there any visual damage to summa canisters or flow regulators? Explain.	

Section 4 – COC Info.

	Completed Yes	Completed No	Info From Container		Completed Yes	Completed No	Comments
Was COC Received	X			Analysis Requested	X		
Date Sampled	X			Samples arrived within holding time	X		
Time Sampled	X			Any hold times less than 72 hrs	X		NO3
Sample ID	X			Client Name	X		
Rush TAT		X		Address/Telephone #	X		

Section 5 – Comments / Discrepancies

Was Client notified of discrepancies: Yes No [N/A] Notified by:

Explanations / Comments:

Samples Labeled by: ___SV___
Bin #s: ___21___
COC Scanned/Attached by: _SV_
Sample labels reviewed by: _____

Filled Out by:	Barrett Vue	Date:	11/23/15
		Time:	10:00

Excelchem Environmental Lab.

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.

Laboratory Representative

Exhibit 12

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # **B5L0403**

Project: **Linwood Discharge**

Date: 12/07/15

Date Rec'd: 12/04/15

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

CERTIFICATE OF ANALYSIS

Sampler: Josh Davis

Sample ID: 4030 Linwood House

Lab ID	Sample Date / Time	RL	Method	Analyte	Result	Units	Notes	Started
B5L0403-01	12/04/2015 11:20	1.25	300.0	Nitrate Nitrogen (NO3-N)	24.6	mg/L		12/04/15 14:16
		10.0	SM 2540 C	Total Dissolved Solids (TDS)	756	mg/L		12/04/15 17:51
		NA	SM9223 (Colitag)	E. Coli	Absent	NA		12/04/15 13:40
		NA		Total Coliform	Present	NA		"

Kanti Gandhi
Chemist

Donna Keller
Laboratory Director

Certification # 2585

Exhibit 12

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # B5L0403 **Project: Linwood Discharge** **Date:** 12/07/15

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 12/04/15

Inorganic Chemistry - Quality Control
GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B003501 - NO PREP				**Prepared: 12/02/15 Analyzed: 12/03/15**						
Blank (B003501-BLK1)										
Nitrate Nitrogen (NO3-N)	ND	0.25	mg/L							
LCS (B003501-BS1)										
Nitrate Nitrogen (NO3-N)	2.21	0.25	mg/L	2.258		98	80-120			
LCS Dup (B003501-BSD1)										
Nitrate Nitrogen (NO3-N)	1.93	0.25	mg/L	2.258		85	80-120	14	20	
Batch B003537 - NO PREP				**Prepared: 12/04/15 Analyzed: 12/07/15**						
Blank (B003537-BLK1)										
Total Dissolved Solids (TDS)	ND	10.0	mg/L							
Duplicate (B003537-DUP1)		**Source: B5L0403-01**								
Total Dissolved Solids (TDS)	772	10.0	mg/L		756			2	10	

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # B5L0403 **Project: Linwood Discharge** **Date:** 12/07/15

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 12/04/15

Microbiology - Quality Control
GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B003560 - BIO				**Prepared: 12/04/15 Analyzed: 12/05/15**						
Blank (B003560-BLK1)										
E. Coli	Absent		NA							
Total Coliform	Absent		"							
Duplicate (B003560-DUP1)		**Source: B5L0408-01**								
E. Coli	Absent		NA		0.0				0	
Total Coliform	Absent		"		0.0				0	

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # B5L0403 **Project: Linwood Discharge** **Date:** 12/07/15

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 12/04/15

Notes and Definitions

P	Present
A	Absent
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
RL	Reporting Limit
NA	Not Applicable

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr
Turlock, CA 95380

Phone: (209) 669 0100
Fax: (209) 593 2212

Lab Report # B5L0403

Regulatory ☐ Yes ☐ No CC: ☐ Yes ☐ No

Regulator:

Phone: ( )

Fax: ( )

Original To:

C.C To:

Client: R+J AVILA, INC.

Address: 8119 ELLINGTON AVE

City HILMAR, CA Zip 95324

CHAIN OF CUSTODY

☐ EDF ☐ EDT

☐ FIELD LOGS

Project ID LINWOOD DISCHARGE

Sampled By (Print Name) JOSH DAVIS

(Signature)

Date	Time	Sample type Grab	Sample type Comp	Matrix	Sample ID	Container Type	Container Size	No. Of Containers	Nitrate as N	TDS	Bact / PA							Lab Use Only Lab ID #	Preservative
12/4/15	11:20	X			4030 LINWOOD HOUSE			2	X	X	X							01	

RUSH

Relinquished by (Signature)	Date	Time	Received by (Signature)	Date	Time
[signature]	12/4/15	11:40	[signature]	12-4-15	11:40
Relinquished by (Signature)	Date	Time	Received by (Signature)	Date	Time

Preservative: 1 4°C 2 HCL 3 NaOH 4 $Na_2S_2O_3$ 5 HNO_3 6 H_2SO_4 7 Other _____

Matrix: DW Drinking Water WW Waste Water HWW Hazardous Waste (Water) S Soil/Solid

Bailers _____ 55 Gallon Drums _____

Pump Truck ☐ Time Mileage

Turnaround Time ☐ Standard ☐ Silver Rush ☐ Gold Rush ☐ Platinum Rush ☐ Other

Approved By:

Exhibit 12

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # **B5L0407** **Project: Linwood Discharge** **Date:** 12/07/15

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 12/04/15

CERTIFICATE OF ANALYSIS

Sampler: Rui Avila

Sample ID: 4200 W Linwood

Lab ID	Sample Date / Time	RL	Method	Analyte	Result	Units	Notes	Started
B5L0407-01	12/04/2015 15:40	1.25	300.0	Nitrate Nitrogen (NO3-N)	**19.3**	mg/L		12/04/15 16:16
		10.0	SM 2540 C	Total Dissolved Solids (TDS)	**2370**	mg/L		12/04/15 17:51
		NA	SM9223 (Colitag)	E. Coli	Absent	NA		12/04/15 17:55
		NA		Total Coliform	Absent	NA		"

Kanti Gandhi
Chemist

Donna Keller
Laboratory Director

Certification # 2585

Exhibit 12

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # B5L0407 **Project: Linwood Discharge** **Date:** 12/07/15

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 12/04/15

Inorganic Chemistry - Quality Control
GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B003501 - NO PREP				**Prepared: 12/02/15 Analyzed: 12/03/15**						
Blank (B003501-BLK1)										
Nitrate Nitrogen (NO3-N)	ND	0.25	mg/L							
LCS (B003501-BS1)										
Nitrate Nitrogen (NO3-N)	2.21	0.25	mg/L	2.258		98	80-120			
LCS Dup (B003501-BSD1)										
Nitrate Nitrogen (NO3-N)	1.93	0.25	mg/L	2.258		85	80-120	14	20	
Batch B003537 - NO PREP				**Prepared: 12/04/15 Analyzed: 12/07/15**						
Blank (B003537-BLK1)										
Total Dissolved Solids (TDS)	ND	10.0	mg/L							
Duplicate (B003537-DUP1)		**Source: B5L0403-01**								
Total Dissolved Solids (TDS)	772	10.0	mg/L		756			2	10	

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # B5L0407 **Project:** Linwood Discharge **Date:** 12/07/15

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 12/04/15

Microbiology - Quality Control
GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B003560 - BIO			**Prepared: 12/04/15 Analyzed: 12/05/15**							
Blank (B003560-BLK1)										
E. Coli	Absent		NA							
Total Coliform	Absent		"							
Duplicate (B003560-DUP1)		**Source: B5L0408-01**								
E. Coli	Absent		NA		0.0				0	
Total Coliform	Absent		"		0.0				0	

Exhibit 12

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # B5L0407 **Project: Linwood Discharge** **Date:** 12/07/15

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 12/04/15

Notes and Definitions

A	Absent
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
RL	Reporting Limit
NA	Not Applicable

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr
Turlock, CA 95380

Phone: (209) 669 0100
Fax: (209) 593 2212

Lab Report # B5L0401

Regulatory ☐Yes ☐No CC: ☐Yes ☐No

Regulator:

Phone: ( )

Fax: ( )

Original To:

C.C To:

Client: R+J AVILA

Address: 8119 ELLINGTON AVE

City HILMAR Zip 95324

CHAIN OF CUSTODY

☐EDF ☐EDT

☐ FIELD LOGS

Project ID LINWOOD DISCHARGE

Sampled By (Print Name) Rui AVILA

(Signature)

Date	Time	Sample type Grab	Sample type Comp	Matrix	Sample ID	Container Type	Container Size	No. Of Containers	TDS	NITRATE AS N	BACTS							Lab Use Only: Lab ID #	Lab Use Only: Preservative
12/4/15	3:40	X			4200 W. LINWOOD				X	X	X							01	

RUSH

Relinquished by (Signature)	Date	Time	Received by (Signature)	Date	Time
	12/4/15	5:02		12-4-15	5:02
Relinquished by (Signature)	Date	Time	Received by (Signature)	Date	Time

Preservative: 1 4°C 2 HCL 3 NaOH 4 $Na_2S_2O_3$ 5 HNO_3 6 H_2SO_4 7 Other

Matrix: DW Drinking Water WW Waste Water HWW Hazardous Waste (Water) S Soil/Solid

Bailers 55 Gallon Drums

Pump Truck ☐ Time Mileage

Turnaround Time ☐Standard ☐Silver Rush ☐Gold Rush ☐Platinum Rush ☐Other

Approved By:

Exhibit 12

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # **B5L0406** **Project: Linwood Discharge** **Date:** 12/07/15

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 12/04/15

CERTIFICATE OF ANALYSIS

Sampler: Rui Avila

Sample ID: 4318 W Linwood

Lab ID	Sample Date / Time	RL	Method	Analyte	Result	Units	Notes	Started
B5L0406-01	12/04/2015 15:15	1.25	300.0	Nitrate Nitrogen (NO3-N)	**22.0**	mg/L		12/04/15 16:16
		10.0	SM 2540 C	Total Dissolved Solids (TDS)	**1300**	mg/L		12/04/15 17:51
		NA	SM9223 (Colitag)	E. Coli	Absent	NA		12/04/15 17:55
		NA		Total Coliform	Absent	NA		"

Kanti Gandhi
Chemist

Donna Keller
Laboratory Director

Certification # 2585

Exhibit 12

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # B5L0406 **Project: Linwood Discharge** **Date:** 12/07/15

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 12/04/15

Inorganic Chemistry - Quality Control
GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B003501 - NO PREP				**Prepared: 12/02/15 Analyzed: 12/03/15**						
Blank (B003501-BLK1)										
Nitrate Nitrogen (NO3-N)	ND	0.25	mg/L							
LCS (B003501-BS1)										
Nitrate Nitrogen (NO3-N)	2.21	0.25	mg/L	2.258		98	80-120			
LCS Dup (B003501-BSD1)										
Nitrate Nitrogen (NO3-N)	1.93	0.25	mg/L	2.258		85	80-120	14	20	
Batch B003537 - NO PREP				**Prepared: 12/04/15 Analyzed: 12/07/15**						
Blank (B003537-BLK1)										
Total Dissolved Solids (TDS)	ND	10.0	mg/L							
Duplicate (B003537-DUP1)		**Source: B5L0403-01**								
Total Dissolved Solids (TDS)	772	10.0	mg/L		756			2	10	

Exhibit 12

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # B5L0406 **Project:** Linwood Discharge **Date:** 12/07/15

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 12/04/15

Microbiology - Quality Control
GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B003560 - BIO				**Prepared: 12/04/15 Analyzed: 12/05/15**						
Blank (B003560-BLK1)										
E. Coli	Absent		NA							
Total Coliform	Absent		"							
Duplicate (B003560-DUP1)		**Source: B5L0408-01**								
E. Coli	Absent		NA		0.0				0	
Total Coliform	Absent		"		0.0				0	

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # B5L0406 **Project: Linwood Discharge** **Date:** 12/07/15

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 12/04/15

Notes and Definitions

A	Absent
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
RL	Reporting Limit
NA	Not Applicable

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr
Turlock, CA 95380
Phone: (209) 669 0100
Fax: (209) 593 2212

Lab Report # B5L0406
Regulatory ☐ Yes ☐ No CC: ☐ Yes ☐ No
Regulator: _____
Phone: ( ) _____
Fax: ( ) _____
Original To: _____
C.C To: _____

Client: R+J Avila
Address: 8119 Ellington Ave
City Hilmar Zip 95324

CHAIN OF CUSTODY
☐ EDF ☐ EDT
☐ FIELD LOGS

Project ID Linwood Discharge

Sampled By (Print Name) Rui Avila
(Signature) R. Avila

Date	Time	Sample type Grab	Sample type Comp	Matrix	Sample ID	Container Type	Container Size	No. Of Containers	TDS	Nitrate as N	Bacts							Lab Use Only: Lab ID #	Lab Use Only: Preservative
12/4/15	3:15	X			4318 W. Linwood				X	X	X							01	

RUSH

Relinquished by (Signature) R. Avila — Date 12/4/15 — Time 5:02 — Received by (Signature) Norma Kelly — Date 12-4-15 — Time 5:22
Relinquished by (Signature) — Date — Time — Received by (Signature) — Date — Time

Preservative: 1 4°C 2 HCL 3 NaOH 4 $Na_2S_2O_3$ 5 HNO_3 6 H_2SO_4 7 Other _____

Matrix: DW Drinking Water WW Waste Water HWW Hazardous Waste (Water) S Soil/Solid

Bailers _____ 55 Gallon Drums _____ Pump Truck ☐ Time _____ Mileage _____

Turnaround Time ☐ Standard ☐ Silver Rush ☐ Gold Rush ☐ Platinum Rush ☐ Other

Approved By: _____

Exhibit 12

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # **B5L0404** **Project: Linwood Discharge** **Date:** 12/07/15

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 12/04/15

CERTIFICATE OF ANALYSIS

Sampler: Josh Davis

Sample ID: 4406 Linwood House

Lab ID	Sample Date / Time	RL	Method	Analyte	Result	Units	Notes	Started
B5L0404-01	12/04/2015 12:50	1.25	300.0	Nitrate Nitrogen (NO3-N)	**14.4**	mg/L		12/04/15 14:16
		10.0	SM 2540 C	Total Dissolved Solids (TDS)	**903**	mg/L		12/04/15 17:51
		NA	SM9223 (Colitag)	E. Coli	Absent	NA		12/04/15 13:40
		NA		Total Coliform	Absent	NA		"

Kanti Gandhi
Chemist

Donna Keller
Laboratory Director

Certification # 2585

Exhibit 12

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # B5L0404 **Project: Linwood Discharge** **Date:** 12/07/15

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 12/04/15

Inorganic Chemistry - Quality Control
GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B003501 - NO PREP				**Prepared: 12/02/15 Analyzed: 12/03/15**						
Blank (B003501-BLK1)										
Nitrate Nitrogen (NO3-N)	ND	0.25	mg/L							
LCS (B003501-BS1)										
Nitrate Nitrogen (NO3-N)	2.21	0.25	mg/L	2.258		98	80-120			
LCS Dup (B003501-BSD1)										
Nitrate Nitrogen (NO3-N)	1.93	0.25	mg/L	2.258		85	80-120	14	20	
Batch B003537 - NO PREP				**Prepared: 12/04/15 Analyzed: 12/07/15**						
Blank (B003537-BLK1)										
Total Dissolved Solids (TDS)	ND	10.0	mg/L							
Duplicate (B003537-DUP1)		**Source: B5L0403-01**								
Total Dissolved Solids (TDS)	772	10.0	mg/L		756			2	10	

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # B5L0404 **Project: Linwood Discharge** **Date:** 12/07/15

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 12/04/15

Microbiology - Quality Control
GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B003560 - BIO			**Prepared: 12/04/15 Analyzed: 12/05/15**							
Blank (B003560-BLK1)										
E. Coli	Absent		NA							
Total Coliform	Absent		"							
Duplicate (B003560-DUP1)		**Source: B5L0408-01**								
E. Coli	Absent		NA		0.0				0	
Total Coliform	Absent		"		0.0				0	

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # B5L0404 **Project: Linwood Discharge** **Date:** 12/07/15

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 12/04/15

Notes and Definitions

A	Absent
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
RL	Reporting Limit
NA	Not Applicable

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr
Turlock, CA 95380

Phone: (209) 669 0100
Fax: (209) 593 2212

Lab Report # B5L0404

Regulatory ☐Yes ☐No CC: ☐Yes ☐No

Regulator:

Phone: (209) 678-3086

Fax: ( )

Original To:

C.C To: Rui

Client: ~~8119 ELLINGTON AVE~~ R+J AVILA, INC

Address: 8119 ELLINGTON AVE

City HILMAR, CA Zip 95324

CHAIN OF CUSTODY

☐EDF ☐EDT

☐ FIELD LOGS

Project ID LINWOOD DISCHARGE

Sampled By (Print Name) JOSH DAVIS

(Signature)

Date	Time	Sample type Grab	Sample type Comp	Matrix	Sample ID	Container Type	Container Size	No. Of Containers	NITRATE AS N	TDS	BACT / PA							Lab Use Only: Lab ID #	Lab Use Only: Preservative
12/4/15	12:50	x			4406 LINWOOD HOUSE			2	X	X	X							01	

RUSH

Relinquished by (Signature)	Date	Time	Received by (Signature)	Date	Time
	12/4/15	1:05		12-4-15	1:05
Relinquished by (Signature)	Date	Time	Received by (Signature)	Date	Time

Preservative: 1 4°C 2 HCL 3 NaOH 4 $Na_2S_2O_3$ 5 HNO_3 6 H_2SO_4 7 Other

Matrix: DW Drinking Water WW Waste Water HWW Hazardous Waste (Water) S Soil/Solid

Bailers 55 Gallon Drums

Pump Truck ☐ Time Mileage

Turnaround Time ☐Standard ☐Silver Rush ☐Gold Rush ☐Platinum Rush ☐Other

Approved By:

Exhibit 12

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # **B5L0408** **Project: Linwood Discharge** **Date:** 12/07/15

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 12/04/15

CERTIFICATE OF ANALYSIS

Sampler: Rui Avila

Sample ID: 4530 W Linwood

Lab ID	Sample Date / Time	RL	Method	Analyte	Result	Units	Notes	Started
B5L0408-01	12/04/2015 16:00	1.25	300.0	Nitrate Nitrogen (NO3-N)	**14.5**	mg/L		12/04/15 16:16
		10.0	SM 2540 C	Total Dissolved Solids (TDS)	**707**	mg/L		12/04/15 17:51
		NA	SM9223 (Colitag)	E. Coli	Absent	NA		12/04/15 17:55
		NA		Total Coliform	Absent	NA		"

Kanti Gandhi
Chemist

Donna Keller
Laboratory Director

Certification # 2585

Exhibit 12

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # B5L0408 **Project: Linwood Discharge** **Date:** 12/07/15

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 12/04/15

Inorganic Chemistry - Quality Control
GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B003501 - NO PREP				**Prepared: 12/02/15 Analyzed: 12/03/15**						
Blank (B003501-BLK1)										
Nitrate Nitrogen (NO3-N)	ND	0.25	mg/L							
LCS (B003501-BS1)										
Nitrate Nitrogen (NO3-N)	2.21	0.25	mg/L	2.258		98	80-120			
LCS Dup (B003501-BSD1)										
Nitrate Nitrogen (NO3-N)	1.93	0.25	mg/L	2.258		85	80-120	14	20	
Batch B003537 - NO PREP				**Prepared: 12/04/15 Analyzed: 12/07/15**						
Blank (B003537-BLK1)										
Total Dissolved Solids (TDS)	ND	10.0	mg/L							
Duplicate (B003537-DUP1)		**Source: B5L0403-01**								
Total Dissolved Solids (TDS)	772	10.0	mg/L		756			2	10	

Exhibit 12

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # B5L0408 **Project: Linwood Discharge** **Date:** 12/07/15

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 12/04/15

Microbiology - Quality Control
GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B003560 - BIO			**Prepared: 12/04/15 Analyzed: 12/05/15**							
Blank (B003560-BLK1)										
E. Coli	Absent		NA							
Total Coliform	Absent		"							
Duplicate (B003560-DUP1)		**Source: B5L0408-01**								
E. Coli	Absent		NA		Absent				0	
Total Coliform	Absent		"		Absent				0	

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # B5L0408 **Project: Linwood Discharge** **Date:** 12/07/15

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 12/04/15

Notes and Definitions

A	Absent
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
RL	Reporting Limit
NA	Not Applicable

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr
Turlock, CA 95380
Phone: (209) 669 0100
Fax: (209) 593 2212

Lab Report # B5L2408
Regulatory ☐Yes ☐No CC: ☐Yes ☐No
Regulator:
Phone: ( )
Fax: ( )
Original To:
C.C To:

Client: R+J Avila
Address: 8119 Ellington Ave
City Hilmar Zip 95324

CHAIN OF CUSTODY
☐EDF ☐EDT
☐ FIELD LOGS

Project ID Linwood Discharge

Sampled By (Print Name) Rui Avila
(Signature)

Date	Time	Sample type Grab	Sample type Comp	Matrix	Sample ID	Container Type	Container Size	No. Of Containers	TDS	Nitrate as N	Bacts							Lab Use Only: Lab ID #	Preservative
12/4/15	4:00	X			4530 W. Linwood				X	X	X							01	

RUSH

Relinquished by (Signature)	Date	Time	Received by (Signature)	Date	Time
	12/4/15	5:02		12-4-15	5:02
Relinquished by (Signature)	Date	Time	Received by (Signature)	Date	Time

Preservative: 1 4°C 2 HCL 3 NaOH 4 $Na_2S_2O_3$ 5 HNO_3 6 H_2SO_4 7 Other

Matrix: DW Drinking Water WW Waste Water HWW Hazardous Waste (Water) S Soil/Solid

Bailers 55 Gallon Drums Pump Truck ☐ Time Mileage

Turnaround Time ☐Standard ☐Silver Rush ☐Gold Rush ☐Platinum Rush ☐Other

Approved By:

Exhibit 12

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # **B5L0402** **Project: Linwood Discharge** **Date:** 12/07/15

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 12/04/15

CERTIFICATE OF ANALYSIS

Sampler: Josh Davis

Sample ID: Dairy Well

Lab ID	Sample Date / Time	RL	Method	Analyte	Result	Units	Notes	Started
B5L0402-01	12/04/2015 10:30	0.25	300.0	Nitrate Nitrogen (NO3-N)	**1.39**	mg/L		12/04/15 14:16
		10.0	SM 2540 C	Total Dissolved Solids (TDS)	**131**	mg/L		12/04/15 17:51
		NA	SM9223 (Colitag)	E. Coli	Absent	NA		12/04/15 13:40
		NA		Total Coliform	Absent	NA		"

Kanti Gandhi
Chemist

Donna Keller
Laboratory Director

Certification # 2585

Exhibit 12

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # B5L0402 **Project: Linwood Discharge** **Date:** 12/07/15

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 12/04/15

Inorganic Chemistry - Quality Control
GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B003501 - NO PREP				**Prepared: 12/02/15 Analyzed: 12/03/15**						
Blank (B003501-BLK1)										
Nitrate Nitrogen (NO3-N)	ND	0.25	mg/L							
LCS (B003501-BS1)										
Nitrate Nitrogen (NO3-N)	2.21	0.25	mg/L	2.258		98	80-120			
LCS Dup (B003501-BSD1)										
Nitrate Nitrogen (NO3-N)	1.93	0.25	mg/L	2.258		85	80-120	14	20	
Batch B003537 - NO PREP				**Prepared: 12/04/15 Analyzed: 12/07/15**						
Blank (B003537-BLK1)										
Total Dissolved Solids (TDS)	ND	10.0	mg/L							
Duplicate (B003537-DUP1)		**Source: B5L0403-01**								
Total Dissolved Solids (TDS)	772	10.0	mg/L		756			2	10	

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # B5L0402 **Project: Linwood Discharge** **Date:** 12/07/15

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 12/04/15

Microbiology - Quality Control
GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B003560 - BIO			**Prepared: 12/04/15 Analyzed: 12/05/15**							
Blank (B003560-BLK1)										
E. Coli	Absent		NA							
Total Coliform	Absent		"							
Duplicate (B003560-DUP1)		**Source: B5L0408-01**								
E. Coli	Absent		NA		0.0				0	
Total Coliform	Absent		"		0.0				0	

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # B5L0402 **Project: Linwood Discharge** **Date:** 12/07/15

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 12/04/15

Notes and Definitions

A	Absent
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
RL	Reporting Limit
NA	Not Applicable

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr
Turlock, CA 95380

Phone: (209) 669 0100
Fax: (209) 593 2212

Lab Report # B5L3402

Regulatory ☐ Yes ☐ No CC: ☐ Yes ☐ No

Regulator: _____

Phone: ( ) _____

Fax: ( ) _____

Original To: _____

C.C To: _____

Client: R+J AVILA, INC.

Address: 8119 ELLINGTON AVE

City HILMAR, CA Zip 95324

CHAIN OF CUSTODY

☐ EDF ☐ EDT

☐ FIELD LOGS

Project ID LINWOOD DISCHARGE

Sampled By (Print Name) JOSH DAVIS

(Signature)

Date	Time	Sample type Grab	Comp	Matrix	Sample ID	Container Type	Size	No. Of Containers	NITRATE AS N	TDS	Bact / PA							Lab Use Only: Lab ID #	Preservative
12/4/15	10:30	X			DAIRY WELL			2	X	X	X							01	

RUSH

Relinquished by (Signature)	Date	Time	Received by (Signature)	Date	Time
	12/4/15	11:40		12-4-15	11:40
Relinquished by (Signature)	Date	Time	Received by (Signature)	Date	Time

Preservative: 1 4°C 2 HCL 3 NaOH 4 $Na_2S_2O_3$ 5 HNO_3 6 H_2SO_4 7 Other _____

Matrix: DW Drinking Water WW Waste Water HWW Hazardous Waste (Water) S Soil/Solid

Bailers _____ 55 Gallon Drums _____

Pump Truck ☐ Time Mileage

Turnaround Time ☐ Standard ☐ Silver Rush ☐ Gold Rush ☐ Platinum Rush ☐ Other

Approved By: _____

Exhibit 12

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # B5L0807 **Project:** Linwood Discharge **Date:** 12/09/15

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 12/08/15

CERTIFICATE OF ANALYSIS

Sampler: Rui Avila

Sample ID: 1600 S. Washington

Lab ID	Sample Date / Time	RL	Method	Analyte	Result	Units	Notes	Started
B5L0807-01	12/08/2015 10:20	0.40	300.0	Nitrate as N	**4.25**	mg/L		12/08/15 14:41
		10.0	SM 2540 C	Total Dissolved Solids (TDS)	**302**	mg/L		12/08/15 12:00
		NA	SM9223 (Colitag)	E. Coli	Absent	NA		12/08/15 12:10
		NA		Total Coliform	Absent	NA		"

Kanti Gandhi
Chemist

Donna Keller
Laboratory Director

Certification # 2585

Exhibit 12

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # B5L0807 **Project: Linwood Discharge** **Date:** 12/09/15

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 12/08/15

Inorganic Chemistry - Quality Control
GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B003573 - NO PREP				**Prepared: 12/08/15 Analyzed: 12/09/15**						
Blank (B003573-BLK1)										
Nitrate as N	ND	0.40	mg/L							
LCS (B003573-BS1)										
Nitrate as N	2.42	0.40	mg/L	2.258		107	85-115			
LCS Dup (B003573-BSD1)										
Nitrate as N	2.03	0.40	mg/L	2.258		90	85-115	18	20	
Matrix Spike (B003573-MS1)		**Source: B5L0806-01**								
Nitrate as N	24.4	0.40	mg/L	2.258	22.6	82	85-115			QM-02
Matrix Spike Dup (B003573-MSD1)		**Source: B5L0806-01**								
Nitrate as N	24.4	0.40	mg/L	2.258	22.6	81	85-115	0.1	20	QM-02
Batch B003594 - NO PREP				**Prepared: 12/08/15 Analyzed: 12/09/15**						
Blank (B003594-BLK1)										
Total Dissolved Solids (TDS)	ND	10.0	mg/L							
Duplicate (B003594-DUP1)		**Source: B5L0806-01**								
Total Dissolved Solids (TDS)	744	10.0	mg/L		894			18	10	

Exhibit 12

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # B5L0807 **Project: Linwood Discharge** **Date:** 12/09/15

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 12/08/15

Microbiology - Quality Control
GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B003580 - BIO			**Prepared: 12/08/15 Analyzed: 12/09/15**							
Blank (B003580-BLK1)										
E. Coli	Absent		NA							
Total Coliform	Absent		"							

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # B5L0807 **Project: Linwood Discharge** **Date:** 12/09/15

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 12/08/15

Notes and Definitions

QM-02	The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.
A	Absent
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
RL	Reporting Limit
NA	Not Applicable

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr
Turlock, CA 95380

Phone: (209) 669 0100
Fax: (209) 593 2212

Lab Report # BSL0807

Regulatory ☐ Yes ☐ No CC: ☐ Yes ☐ No

Regulator: _____

Phone: ( ) _____

Fax: ( ) _____

Original To: _____

C.C To: _____

Client: R. + J Avila

Address: 8119 Ellington Ave

City Hilmar Ca Zip 95324

CHAIN OF CUSTODY

☐ EDF ☐ EDT

☐ FIELD LOGS

Project ID Linwood Discharge

Sampled By (Print Name) Rui Avila

(Signature) R. Avila

Date	Time	Sample type Grab	Sample type Comp	Matrix	Sample ID	Container Type	Container Size	No. Of Containers	Nitrate as N	TDS	E-Coli	Coliform						Lab Use Only: Lab ID #	Lab Use Only: Preservative
12/8/15	10:20	X			1600 S. Washington				X	X	X	X						-01	

RUSH

Relinquished by (Signature)	Date	Time	Received by (Signature)	Date	Time
R. Avila	12/8/15	10:55	[illegible]	12-8-15	10:55
Relinquished by (Signature)	Date	Time	Received by (Signature)	Date	Time

Preservative: 1 4°C 2 HCL 3 NaOH 4 $Na_2S_2O_3$ 5 HNO_3 6 H_2SO_4 7 Other _____

Matrix: DW Drinking Water WW Waste Water HWW Hazardous Waste (Water) S Soil/Solid

Bailers _____ 55 Gallon Drums _____

Pump Truck ☐ Time Mileage

Turnaround Time ☐ Standard ☐ Silver Rush ☐ Gold Rush ☐ Platinum Rush ☐ Other

Approved By: _____

Exhibit 12

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # B5L0806 **Project:** Linwood Discharge **Date:** 12/09/15

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 12/08/15

CERTIFICATE OF ANALYSIS

Sampler: Rui Avila

Sample ID: 1624 S. Washington

Lab ID	Sample Date / Time	RL	Method	Analyte	Result	Units	Notes	Started
B5L0806-01	12/08/2015 10:00	0.40	300.0	Nitrate as N	**22.6**	mg/L		12/08/15 14:41
		10.0	SM 2540 C	Total Dissolved Solids (TDS)	**894**	mg/L		12/08/15 12:00
		NA	SM9223 (Colitag)	E. Coli	Absent	NA		12/08/15 12:10
		NA		Total Coliform	Present	NA		"

Kanti Gandhi
Chemist

Donna Keller
Laboratory Director

Certification # 2585

Exhibit 12

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # B5L0806 **Project: Linwood Discharge** **Date:** 12/09/15

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 12/08/15

Inorganic Chemistry - Quality Control
GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B003573 - NO PREP				**Prepared: 12/08/15 Analyzed: 12/09/15**						
Blank (B003573-BLK1)										
Nitrate as N	ND	0.40	mg/L							
LCS (B003573-BS1)										
Nitrate as N	2.42	0.40	mg/L	2.258		107	85-115			
LCS Dup (B003573-BSD1)										
Nitrate as N	2.03	0.40	mg/L	2.258		90	85-115	18	20	
Matrix Spike (B003573-MS1)		**Source: B5L0806-01**								
Nitrate as N	24.4	0.40	mg/L	2.258	22.6	82	85-115			QM-02
Matrix Spike Dup (B003573-MSD1)		**Source: B5L0806-01**								
Nitrate as N	24.4	0.40	mg/L	2.258	22.6	81	85-115	0.1	20	QM-02
Batch B003594 - NO PREP				**Prepared: 12/08/15 Analyzed: 12/09/15**						
Blank (B003594-BLK1)										
Total Dissolved Solids (TDS)	ND	10.0	mg/L							
Duplicate (B003594-DUP1)		**Source: B5L0806-01**								
Total Dissolved Solids (TDS)	744	10.0	mg/L		894			18	10	

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # B5L0806 **Project: Linwood Discharge** **Date:** 12/09/15

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 12/08/15

Microbiology - Quality Control
GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B003580 - BIO			**Prepared: 12/08/15 Analyzed: 12/09/15**							
Blank (B003580-BLK1)										
E. Coli	Absent		NA							
Total Coliform	Absent		"							

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # B5L0806 **Project: Linwood Discharge** **Date:** 12/09/15

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 12/08/15

Notes and Definitions

QM-02	The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.
P	Present
A	Absent
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
RL	Reporting Limit
NA	Not Applicable

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr
Turlock, CA 95380

Phone: (209) 669 0100
Fax: (209) 593 2212

Lab Report # BS L0806

Regulatory ☐ Yes ☐ No CC: ☐ Yes ☐ No

Regulator:

Phone: ( )

Fax: ( )

Original To:

C.C To:

Client: R. + J Avila

Address: 8119 Ellington Ave

City Hilmar CA Zip 95324

CHAIN OF CUSTODY

☐ EDF ☐ EDT

☐ FIELD LOGS

Project ID Linwood Discharge

Sampled By (Print Name) Rui Avila

(Signature) R. Avila

Date	Time	Sample type Grab	Sample type Comp	Matrix	Sample ID	Container Type	Container Size	No. Of Containers	Nitrate as N	TDS	E-Coli	Coliform						Lab Use Only: Lab ID #	Lab Use Only: Preservative
12/8/15	10:00 Am	X			1624 S. Washington				X	X	X	X						-01	

RUSH

Relinquished by (Signature)	Date	Time	Received by (Signature)	Date	Time
R. Avila	12/8/15	10:55	[illegible]	12-8-15	10:55
Relinquished by (Signature)	Date	Time	Received by (Signature)	Date	Time

Preservative: 1 4°C 2 HCL 3 NaOH 4 $Na_2S_2O_3$ 5 HNO_3 6 H_2SO_4 7 Other

Matrix: DW Drinking Water WW Waste Water HWW Hazardous Waste (Water) S Soil/Solid

Bailers 55 Gallon Drums

Pump Truck ☐ Time Mileage

Turnaround Time ☐ Standard ☐ Silver Rush ☐ Gold Rush ☐ Platinum Rush ☐ Other

Approved By:

Exhibit 12

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # B5L0809 **Project:** Linwood Discharge **Date:** 12/09/15

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 12/08/15

CERTIFICATE OF ANALYSIS

Sampler: Rui Avila

Sample ID: 4230 W Linwood

Lab ID	Sample Date / Time	RL	Method	Analyte	Result	Units	Notes	Started
B5L0809-01	12/08/2015 10:40	0.40	300.0	Nitrate as N	**14.2**	mg/L		12/08/15 14:41
		10.0	SM 2540 C	Total Dissolved Solids (TDS)	**825**	mg/L		12/08/15 12:00
		NA	SM9223 (Colitag)	E. Coli	Absent	NA		12/08/15 12:10
		NA		Total Coliform	Present	NA		"

Kanti Gandhi
Chemist

Donna Keller
Laboratory Director

Certification # 2585

Exhibit 12

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # B5L0809 **Project:** Linwood Discharge **Date:** 12/09/15

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 12/08/15

Inorganic Chemistry - Quality Control
GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B003573 - NO PREP				**Prepared: 12/08/15 Analyzed: 12/09/15**						
Blank (B003573-BLK1)										
Nitrate as N	ND	0.40	mg/L							
LCS (B003573-BS1)										
Nitrate as N	2.42	0.40	mg/L	2.258		107	85-115			
LCS Dup (B003573-BSD1)										
Nitrate as N	2.03	0.40	mg/L	2.258		90	85-115	18	20	
Matrix Spike (B003573-MS1)		**Source: B5L0806-01**								
Nitrate as N	24.4	0.40	mg/L	2.258	22.6	82	85-115			QM-02
Matrix Spike Dup (B003573-MSD1)		**Source: B5L0806-01**								
Nitrate as N	24.4	0.40	mg/L	2.258	22.6	81	85-115	0.1	20	QM-02
Batch B003594 - NO PREP				**Prepared: 12/08/15 Analyzed: 12/09/15**						
Blank (B003594-BLK1)										
Total Dissolved Solids (TDS)	ND	10.0	mg/L							
Duplicate (B003594-DUP1)		**Source: B5L0806-01**								
Total Dissolved Solids (TDS)	744	10.0	mg/L		894			18	10	

Exhibit 12

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # **B5L0809** **Project: Linwood Discharge** **Date:** 12/09/15

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 12/08/15

Microbiology - Quality Control
GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B003580 - BIO			**Prepared: 12/08/15 Analyzed: 12/09/15**							
Blank (B003580-BLK1)										
E. Coli	Absent		NA							
Total Coliform	Absent		"							

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # B5L0809 **Project: Linwood Discharge** **Date:** 12/09/15

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 12/08/15

Notes and Definitions

QM-02	The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.
P	Present
A	Absent
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
RL	Reporting Limit
NA	Not Applicable

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr
Turlock, CA 95380
Phone: (209) 669 0100
Fax: (209) 593 2212

Lab Report # BSL0809
Regulatory ☐ Yes ☐ No CC: ☐ Yes ☐ No
Regulator:
Phone: ( )
Fax: ( )
Original To:
C.C To:

Client: R. + J Avila
Address: 8119 Ellington Ave
City Hilmar Ca Zip 95324

CHAIN OF CUSTODY
☐ EDF ☐ EDT
☐ FIELD LOGS

Project ID Linwood Discharge

Sampled By (Print Name) Rui Avila
(Signature) R. Avila

Date	Time	Sample type Grab	Sample type Comp	Matrix	Sample ID	Container Type	Container Size	No. Of Containers	Nitrate as N	TDS	E-Coli	Coliform						Lab Use Only: Lab ID #	Lab Use Only: Preservative
12/8/15	10:40	X			4230 W. Linwood				X	X	X	X						-01	

RUSH

Relinquished by (Signature)	Date	Time	Received by (Signature)	Date	Time
R. Avila	12/8/15	10:55	[illegible]	12-8-15	10:55
Relinquished by (Signature)	Date	Time	Received by (Signature)	Date	Time

Preservative: 1 4°C 2 HCL 3 NaOH 4 $Na_2S_2O_3$ 5 HNO_3 6 H_2SO_4 7 Other

Matrix: DW Drinking Water WW Waste Water HWW Hazardous Waste (Water) S Soil/Solid

Bailers 55 Gallon Drums

Pump Truck ☐ Time Mileage

Turnaround Time ☐ Standard ☐ Silver Rush ☐ Gold Rush ☐ Platinum Rush ☐ Other

Approved By:

Exhibit 12

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # **B5L0810** **Project:** **Linwood Discharge** **Date:** 12/09/15

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 12/08/15

CERTIFICATE OF ANALYSIS

Sampler: Rui Avila

Sample ID: 4500 W Linwood

Lab ID	Sample Date / Time	RL	Method	Analyte	Result	Units	Notes	Started
B5L0810-01	12/08/2015 10:10	0.40	300.0	Nitrate as N	**0.84**	mg/L		12/08/15 14:41
		10.0	SM 2540 C	Total Dissolved Solids (TDS)	**124**	mg/L		12/08/15 12:00
		NA	SM9223 (Colitag)	E. Coli	Absent	NA		12/08/15 12:10
		NA		Total Coliform	Present	NA		"

Kanti Gandhi
Chemist

Donna Keller
Laboratory Director

Certification # 2585

Exhibit 12

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # B5L0810 **Project: Linwood Discharge** **Date:** 12/09/15

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 12/08/15

Inorganic Chemistry - Quality Control
GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B003573 - NO PREP				**Prepared: 12/08/15 Analyzed: 12/09/15**						
Blank (B003573-BLK1)										
Nitrate as N	ND	0.40	mg/L							
LCS (B003573-BS1)										
Nitrate as N	2.42	0.40	mg/L	2.258		107	85-115			
LCS Dup (B003573-BSD1)										
Nitrate as N	2.03	0.40	mg/L	2.258		90	85-115	18	20	
Matrix Spike (B003573-MS1)		**Source: B5L0806-01**								
Nitrate as N	24.4	0.40	mg/L	2.258	22.6	82	85-115			QM-02
Matrix Spike Dup (B003573-MSD1)		**Source: B5L0806-01**								
Nitrate as N	24.4	0.40	mg/L	2.258	22.6	81	85-115	0.1	20	QM-02
Batch B003594 - NO PREP				**Prepared: 12/08/15 Analyzed: 12/09/15**						
Blank (B003594-BLK1)										
Total Dissolved Solids (TDS)	ND	10.0	mg/L							
Duplicate (B003594-DUP1)		**Source: B5L0806-01**								
Total Dissolved Solids (TDS)	744	10.0	mg/L		894			18	10	

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # B5L0810 **Project: Linwood Discharge** **Date:** 12/09/15

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 12/08/15

Microbiology - Quality Control
GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B003580 - BIO				**Prepared: 12/08/15 Analyzed: 12/09/15**						
Blank (B003580-BLK1)										
E. Coli	Absent		NA							
Total Coliform	Absent		"							

Certification # 2585

Exhibit 12

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # B5L0810 **Project: Linwood Discharge** **Date:** 12/09/15

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 12/08/15

Notes and Definitions

QM-02	The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.
P	Present
A	Absent
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
RL	Reporting Limit
NA	Not Applicable

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr
Turlock, CA 95380

Phone: (209) 669 0100
Fax: (209) 593 2212

Lab Report # BSL0810

Regulatory ☐ Yes ☐ No CC: ☐ Yes ☐ No

Regulator: _____

Phone: ( ) _____

Fax: ( ) _____

Original To: _____

C.C To: _____

Client: R. + J Avila

Address: 8119 Ellington Ave

City Hilmar Ca Zip 95324

CHAIN OF CUSTODY

☐ EDF ☐ EDT

☐ FIELD LOGS

Project ID Linwood Discharge

Sampled By (Print Name) R. Avila

(Signature) R. Avila

Date	Time	Sample type Grab	Sample type Comp	Matrix	Sample ID	Container Type	Container Size	No. Of Containers	Nitrate as N	TDS	E-Coli	Coliform						Lab Use Only: Lab ID #	Lab Use Only: Preservative
12/8/15	10:10	X			4500 W. Linwood				X	X	X	X						-01	

RUSH

Relinquished by (Signature)	Date	Time	Received by (Signature)	Date	Time
R. Avila	12/8/15	10:55	[signature]	12-8-15	10:55
Relinquished by (Signature)	Date	Time	Received by (Signature)	Date	Time

Preservative: 1 4°C 2 HCL 3 NaOH 4 $Na_2S_2O_3$ 5 HNO_3 6 H_2SO_4 7 Other _____

Matrix: DW Drinking Water WW Waste Water HWW Hazardous Waste (Water) S Soil/Solid

Bailers _____ 55 Gallon Drums _____

Pump Truck ☐ Time Mileage

Turnaround Time ☐ Standard ☐ Silver Rush ☐ Gold Rush ☐ Platinum Rush ☐ Other

Approved By: _____

Exhibit 12

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # B5L0808 **Project: Linwood Discharge** **Date:** 12/09/15

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 12/08/15

CERTIFICATE OF ANALYSIS

Sampler: Rui Avila

Sample ID: 4600 W Linwood

Lab ID	Sample Date / Time	RL	Method	Analyte	Result	Units	Notes	Started
B5L0808-01	12/08/2015 10:35	0.40	300.0	Nitrate as N	12.6	mg/L		12/08/15 14:41
		10.0	SM 2540 C	Total Dissolved Solids (TDS)	592	mg/L		12/08/15 12:00
		NA	SM9223 (Colitag)	E. Coli	Absent	NA		12/08/15 12:10
		NA		Total Coliform	Absent	NA		"

Kanti Gandhi
Chemist

Donna Keller
Laboratory Director

Certification # 2585

Exhibit 12

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # B5L0808 **Project: Linwood Discharge** **Date:** 12/09/15

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 12/08/15

Inorganic Chemistry - Quality Control
GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B003573 - NO PREP			**Prepared: 12/08/15 Analyzed: 12/09/15**							
Blank (B003573-BLK1)										
Nitrate as N	ND	0.40	mg/L							
LCS (B003573-BS1)										
Nitrate as N	2.42	0.40	mg/L	2.258		107	85-115			
LCS Dup (B003573-BSD1)										
Nitrate as N	2.03	0.40	mg/L	2.258		90	85-115	18	20	
Matrix Spike (B003573-MS1)		**Source: B5L0806-01**								
Nitrate as N	24.4	0.40	mg/L	2.258	22.6	82	85-115			QM-02
Matrix Spike Dup (B003573-MSD1)		**Source: B5L0806-01**								
Nitrate as N	24.4	0.40	mg/L	2.258	22.6	81	85-115	0.1	20	QM-02
Batch B003594 - NO PREP			**Prepared: 12/08/15 Analyzed: 12/09/15**							
Blank (B003594-BLK1)										
Total Dissolved Solids (TDS)	ND	10.0	mg/L							
Duplicate (B003594-DUP1)		**Source: B5L0806-01**								
Total Dissolved Solids (TDS)	744	10.0	mg/L		894			18	10	

Exhibit 12

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # B5L0808 **Project: Linwood Discharge** **Date:** 12/09/15

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 12/08/15

Microbiology - Quality Control
GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B003580 - BIO			**Prepared: 12/08/15 Analyzed: 12/09/15**							
Blank (B003580-BLK1)										
E. Coli	Absent		NA							
Total Coliform	Absent		"							

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # B5L0808 **Project: Linwood Discharge** **Date:** 12/09/15

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 12/08/15

Notes and Definitions

QM-02	The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.
A	Absent
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
RL	Reporting Limit
NA	Not Applicable

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr
Turlock, CA 95380

Phone: (209) 669 0100
Fax: (209) 593 2212

Lab Report # BSL0808

Regulatory ☐ Yes ☐ No CC: ☐ Yes ☐ No

Regulator: _____

Phone: ( ) _____

Fax: ( ) _____

Original To: _____

C.C To: _____

Client: R. + J Avila

Address: 8119 Ellington Ave

City Hilmar Ca Zip 95324

CHAIN OF CUSTODY

☐ EDF ☐ EDT

☐ FIELD LOGS

Project ID Linwood Discharge

Sampled By (Print Name) R. Avila

(Signature) R. Avila

Date	Time	Sample type Grab	Sample type Comp	Matrix	Sample ID	Container Type	Container Size	No. Of Containers	Nitrate as N	TDS	E-Coli	Coliform						Lab Use Only: Lab ID #	Lab Use Only: Preservative
12/8/15	10:35	X			4600 W. Linwood				X	X	X	X						-01	

RUSH

Relinquished by (Signature)	Date	Time	Received by (Signature)	Date	Time
R. Avila	12/8/15	10:55	[illegible]	12-8-15	10:55
Relinquished by (Signature)	Date	Time	Received by (Signature)	Date	Time

Preservative: 1 4°C 2 HCL 3 NaOH 4 $Na_2S_2O_3$ 5 HNO_3 6 H_2SO_4 7 Other _____

Matrix: DW Drinking Water WW Waste Water HWW Hazardous Waste (Water) S Soil/Solid

Bailers _____ 55 Gallon Drums _____

Pump Truck ☐ Time Mileage

Turnaround Time ☐ Standard ☐ Silver Rush ☐ Gold Rush ☐ Platinum Rush ☐ Other

Approved By: _____

Exhibit 12

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # B5L0403 **Project: Linwood Discharge** **Date:** 12/07/15

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 12/04/15

CERTIFICATE OF ANALYSIS

Sampler: Josh Davis

Sample ID: 4030 Linwood House

Lab ID	Sample Date / Time	RL	Method	Analyte	Result	Units	Notes	Started
B5L0403-01	12/04/2015 11:20	1.25	300.0	Nitrate Nitrogen (NO3-N)	**24.6**	mg/L		12/04/15 14:16
		10.0	SM 2540 C	Total Dissolved Solids (TDS)	**756**	mg/L		12/04/15 17:51
		NA	SM9223 (Colitag)	E. Coli	Absent	NA		12/04/15 13:40
		NA		Total Coliform	Present	NA		"

Kanti Gandhi
Chemist

Donna Keller
Laboratory Director

Certification # 2585

Exhibit 12

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # B5L0403 **Project: Linwood Discharge** **Date: 12/07/15**

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 12/04/15

Inorganic Chemistry - Quality Control
GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B003501 - NO PREP				**Prepared: 12/02/15 Analyzed: 12/03/15**						
Blank (B003501-BLK1)										
Nitrate Nitrogen (NO3-N)	ND	0.25	mg/L							
LCS (B003501-BS1)										
Nitrate Nitrogen (NO3-N)	2.21	0.25	mg/L	2.258		98	80-120			
LCS Dup (B003501-BSD1)										
Nitrate Nitrogen (NO3-N)	1.93	0.25	mg/L	2.258		85	80-120	14	20	
Batch B003537 - NO PREP				**Prepared: 12/04/15 Analyzed: 12/07/15**						
Blank (B003537-BLK1)										
Total Dissolved Solids (TDS)	ND	10.0	mg/L							
Duplicate (B003537-DUP1)		**Source: B5L0403-01**								
Total Dissolved Solids (TDS)	772	10.0	mg/L		756			2	10	

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # B5L0403 **Project:** Linwood Discharge **Date:** 12/07/15

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 12/04/15

Microbiology - Quality Control
GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B003560 - BIO			**Prepared: 12/04/15 Analyzed: 12/05/15**							
Blank (B003560-BLK1)										
E. Coli	Absent		NA							
Total Coliform	Absent		"							
Duplicate (B003560-DUP1)		**Source: B5L0408-01**								
E. Coli	Absent		NA		0.0				0	
Total Coliform	Absent		"		0.0				0	

Exhibit 12

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # B5L0403 **Project: Linwood Discharge** **Date:** 12/07/15

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 12/04/15

Notes and Definitions

P	Present
A	Absent
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
RL	Reporting Limit
NA	Not Applicable

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr
Turlock, CA 95380

Phone: (209) 669 0100
Fax: (209) 593 2212

Lab Report # B5L0403

Regulatory ☐ Yes ☐ No CC: ☐ Yes ☐ No

Regulator:

Phone: ( )

Fax: ( )

Original To:

C.C To:

Client: R+J AVILA, INC.

Address: 8119 ELLINGTON AVE

City HILMAR, CA Zip 95324

CHAIN OF CUSTODY

☐ EDF ☐ EDT

☐ FIELD LOGS

Project ID LINWOOD DISCHARGE

Sampled By (Print Name) JOSH DAVIS

(Signature)

Date	Time	Sample type Grab	Sample type Comp	Matrix	Sample ID	Container Type	Container Size	No. Of Containers	Nitrate as N	TDS	Bact / PA							Lab Use Only: Lab ID #	Preservative
12/4/15	11:20	X			4030 LINWOOD HOUSE			2	X	X	X							01	

RUSH

Relinquished by (Signature)	Date	Time	Received by (Signature)	Date	Time
	12/4/15	11:40		12-4-15	11:40
Relinquished by (Signature)	Date	Time	Received by (Signature)	Date	Time

Preservative: 1 4°C 2 HCL 3 -NaOH 4 $Na_2S_2O_3$ 5 -HNO_3 6 -H_2SO_4 7 -Other _____

Matrix: DW Drinking Water WW Waste Water HWW Hazardous Waste (Water) S Soil/Solid

Bailers _____ 55 Gallon Drums _____

Pump Truck ☐ Time Mileage

Turnaround Time ☐ Standard ☐ Silver Rush ☐ Gold Rush ☐ Platinum Rush ☐ Other

Approved By:

Exhibit 12

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # **B5L0407** **Project: Linwood Discharge** **Date:** 12/07/15

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 12/04/15

CERTIFICATE OF ANALYSIS

Sampler: Rui Avila

Sample ID: 4200 W Linwood

Lab ID	Sample Date / Time	RL	Method	Analyte	Result	Units	Notes	Started
B5L0407-01	12/04/2015 15:40	1.25	300.0	Nitrate Nitrogen (NO3-N)	**19.3**	mg/L		12/04/15 16:16
		10.0	SM 2540 C	Total Dissolved Solids (TDS)	**2370**	mg/L		12/04/15 17:51
		NA	SM9223 (Colitag)	E. Coli	Absent	NA		12/04/15 17:55
		NA		Total Coliform	Absent	NA		"

Kanti Gandhi
Chemist

Donna Keller
Laboratory Director

Certification # 2585

Exhibit 12

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # B5L0407 **Project: Linwood Discharge** **Date:** 12/07/15

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 12/04/15

Inorganic Chemistry - Quality Control
GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B003501 - NO PREP				**Prepared: 12/02/15 Analyzed: 12/03/15**						
Blank (B003501-BLK1)										
Nitrate Nitrogen (NO3-N)	ND	0.25	mg/L							
LCS (B003501-BS1)										
Nitrate Nitrogen (NO3-N)	2.21	0.25	mg/L	2.258		98	80-120			
LCS Dup (B003501-BSD1)										
Nitrate Nitrogen (NO3-N)	1.93	0.25	mg/L	2.258		85	80-120	14	20	
Batch B003537 - NO PREP				**Prepared: 12/04/15 Analyzed: 12/07/15**						
Blank (B003537-BLK1)										
Total Dissolved Solids (TDS)	ND	10.0	mg/L							
Duplicate (B003537-DUP1)		**Source: B5L0403-01**								
Total Dissolved Solids (TDS)	772	10.0	mg/L		756			2	10	

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # B5L0407 **Project: Linwood Discharge** **Date:** 12/07/15

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 12/04/15

Microbiology - Quality Control
GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B003560 - BIO			**Prepared: 12/04/15 Analyzed: 12/05/15**							
Blank (B003560-BLK1)										
E. Coli	Absent		NA							
Total Coliform	Absent		"							
Duplicate (B003560-DUP1)		**Source: B5L0408-01**								
E. Coli	Absent		NA		0.0				0	
Total Coliform	Absent		"		0.0				0	

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # B5L0407 **Project: Linwood Discharge** **Date:** 12/07/15

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 12/04/15

Notes and Definitions

A	Absent
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
RL	Reporting Limit
NA	Not Applicable

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr
Turlock, CA 95380

Phone: (209) 669 0100
Fax: (209) 593 2212

Lab Report # B5L0401

Regulatory ☐Yes ☐No CC: ☐Yes ☐No

Regulator:

Phone: ( )

Fax: ( )

Original To:

C.C To:

Client: R+J Avila

Address: 8119 Ellington Ave

City Hilmar Zip 95324

CHAIN OF CUSTODY

☐EDF ☐EDT

☐ FIELD LOGS

Project ID Linwood Discharge

Sampled By (Print Name) Rui Avila

(Signature)

Date	Time	Sample type Grab	Sample type Comp	Matrix	Sample ID	Container Type	Container Size	No. Of Containers	TDS	Nitrate as N	Bacts							Lab Use Only: Lab ID #	Lab Use Only: Preservative
12/4/15	3:40	X			4200 W. Linwood				X	X	X							01	

RUSH

Relinquished by (Signature)	Date	Time	Received by (Signature)	Date	Time
	12/4/15	5:02		12-4-15	5:02
Relinquished by (Signature)	Date	Time	Received by (Signature)	Date	Time

Preservative: 1 4°C 2 HCL 3 NaOH 4 $Na_2S_2O_3$ 5 HNO_3 6 H_2SO_4 7 Other

Matrix: DW Drinking Water WW Waste Water HWW Hazardous Waste (Water) S Soil/Solid

Bailers 55 Gallon Drums

Pump Truck ☐ Time Mileage

Turnaround Time ☐Standard ☐Silver Rush ☐Gold Rush ☐Platinum Rush ☐Other

Approved By:

Exhibit 12

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # **B5L0406** **Project: Linwood Discharge** **Date:** 12/07/15

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 12/04/15

CERTIFICATE OF ANALYSIS

Sampler: Rui Avila

Sample ID: 4318 W Linwood

Lab ID	Sample Date / Time	RL	Method	Analyte	Result	Units	Notes	Started
B5L0406-01	12/04/2015 15:15	1.25	300.0	Nitrate Nitrogen (NO3-N)	**22.0**	mg/L		12/04/15 16:16
		10.0	SM 2540 C	Total Dissolved Solids (TDS)	**1300**	mg/L		12/04/15 17:51
		NA	SM9223 (Colitag)	E. Coli	Absent	NA		12/04/15 17:55
		NA		Total Coliform	Absent	NA		"

Kanti Gandhi
Chemist

Donna Keller
Laboratory Director

Certification # 2585

Exhibit 12

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # B5L0406 **Project: Linwood Discharge** **Date:** 12/07/15

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 12/04/15

Inorganic Chemistry - Quality Control
GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B003501 - NO PREP				**Prepared: 12/02/15 Analyzed: 12/03/15**						
Blank (B003501-BLK1)										
Nitrate Nitrogen (NO3-N)	ND	0.25	mg/L							
LCS (B003501-BS1)										
Nitrate Nitrogen (NO3-N)	2.21	0.25	mg/L	2.258		98	80-120			
LCS Dup (B003501-BSD1)										
Nitrate Nitrogen (NO3-N)	1.93	0.25	mg/L	2.258		85	80-120	14	20	
Batch B003537 - NO PREP				**Prepared: 12/04/15 Analyzed: 12/07/15**						
Blank (B003537-BLK1)										
Total Dissolved Solids (TDS)	ND	10.0	mg/L							
Duplicate (B003537-DUP1)		**Source: B5L0403-01**								
Total Dissolved Solids (TDS)	772	10.0	mg/L		756			2	10	

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # B5L0406 **Project: Linwood Discharge** **Date:** 12/07/15

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 12/04/15

Microbiology - Quality Control
GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B003560 - BIO			**Prepared: 12/04/15 Analyzed: 12/05/15**							
Blank (B003560-BLK1)										
E. Coli	Absent		NA							
Total Coliform	Absent		"							
Duplicate (B003560-DUP1)		**Source: B5L0408-01**								
E. Coli	Absent		NA		0.0				0	
Total Coliform	Absent		"		0.0				0	

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # B5L0406 **Project: Linwood Discharge** **Date:** 12/07/15

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 12/04/15

Notes and Definitions

A	Absent
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
RL	Reporting Limit
NA	Not Applicable

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr
Turlock, CA 95380
Phone: (209) 669 0100
Fax: (209) 593 2212

Lab Report # B5L0406
Regulatory ☐Yes ☐No CC: ☐Yes ☐No
Regulator:
Phone: ( )
Fax: ( )
Original To:
C.C To:

Client: R+J Avila
Address: 8119 Ellington Ave
City Hilmar Zip 95324

CHAIN OF CUSTODY
☐EDF ☐EDT
☐ FIELD LOGS

Project ID Linwood Discharge
Sampled By (Print Name) Rui Avila
(Signature)

Date	Time	Sample type Grab	Sample type Comp	Matrix	Sample ID	Container Type	Container Size	No. Of Containers	TDS	Nitrate as N	Bacte							Lab Use Only: Lab ID #	Lab Use Only: Preservative
12/4/15	3:15	X			4318 W. Linwood				X	X	X							01	

RUSH

Relinquished by (Signature)	Date	Time	Received by (Signature)	Date	Time
	12/4/15	5:02		12-4-15	5:02
Relinquished by (Signature)	Date	Time	Received by (Signature)	Date	Time

Preservative: 1 4°C 2 HCL 3 NaOH 4 $Na_2S_2O_3$ 5 HNO_3 6 H_2SO_4 7 Other

Matrix: DW Drinking Water WW Waste Water HWW Hazardous Waste (Water) S Soil/Solid

Bailers 55 Gallon Drums

Pump Truck ☐ Time Mileage

Turnaround Time ☐Standard ☐Silver Rush ☐Gold Rush ☐Platinum Rush ☐Other

Approved By:

Exhibit 12

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # **B5L0404** **Project: Linwood Discharge** **Date:** 12/07/15

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 12/04/15

CERTIFICATE OF ANALYSIS

Sampler: Josh Davis

Sample ID: 4406 Linwood House

Lab ID	Sample Date / Time	RL	Method	Analyte	Result	Units	Notes	Started
B5L0404-01	12/04/2015 12:50	1.25	300.0	Nitrate Nitrogen (NO3-N)	14.4	mg/L		12/04/15 14:16
		10.0	SM 2540 C	Total Dissolved Solids (TDS)	903	mg/L		12/04/15 17:51
		NA	SM9223 (Colitag)	E. Coli	Absent	NA		12/04/15 13:40
		NA		Total Coliform	Absent	NA		"

Kanti Gandhi
Chemist

Donna Keller
Laboratory Director

Certification # 2585

Exhibit 12

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # B5L0404 **Project: Linwood Discharge** **Date:** 12/07/15

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 12/04/15

Inorganic Chemistry - Quality Control
GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B003501 - NO PREP				**Prepared: 12/02/15 Analyzed: 12/03/15**						
Blank (B003501-BLK1)										
Nitrate Nitrogen (NO3-N)	ND	0.25	mg/L							
LCS (B003501-BS1)										
Nitrate Nitrogen (NO3-N)	2.21	0.25	mg/L	2.258		98	80-120			
LCS Dup (B003501-BSD1)										
Nitrate Nitrogen (NO3-N)	1.93	0.25	mg/L	2.258		85	80-120	14	20	
Batch B003537 - NO PREP				**Prepared: 12/04/15 Analyzed: 12/07/15**						
Blank (B003537-BLK1)										
Total Dissolved Solids (TDS)	ND	10.0	mg/L							
Duplicate (B003537-DUP1)		**Source: B5L0403-01**								
Total Dissolved Solids (TDS)	772	10.0	mg/L		756			2	10	

Exhibit 12

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # B5L0404 **Project: Linwood Discharge** **Date:** 12/07/15

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 12/04/15

Microbiology - Quality Control
GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B003560 - BIO				**Prepared: 12/04/15 Analyzed: 12/05/15**						
Blank (B003560-BLK1)										
E. Coli	Absent		NA							
Total Coliform	Absent		"							
Duplicate (B003560-DUP1)		**Source: B5L0408-01**								
E. Coli	Absent		NA		0.0				0	
Total Coliform	Absent		"		0.0				0	

Exhibit 12

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # B5L0404 **Project: Linwood Discharge** **Date:** 12/07/15

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 12/04/15

Notes and Definitions

A	Absent
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
RL	Reporting Limit
NA	Not Applicable

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr
Turlock, CA 95380

Phone: (209) 669 0100
Fax: (209) 593 2212

Lab Report # B5L0404
Regulatory ☐ Yes ☐ No CC: ☐ Yes ☐ No
Regulator:
Phone: (209) 678-3086
Fax: ( )
Original To:
C.C To: Rui

Client: ~~8119 ELLINGTON AVE~~ R+J AVILA, INC
Address: 8119 ELLINGTON AVE
City HILMAR, CA Zip 95324

CHAIN OF CUSTODY
☐ EDF ☐ EDT
☐ FIELD LOGS

Project ID LINWOOD DISCHARGE

Sampled By (Print Name) JOSH DAVIS
(Signature)

Date	Time	Sample type Grab	Sample type Comp	Matrix	Sample ID	Container Type	Container Size	No. Of Containers	NITRATE AS N	TDS	BACT / PA							Lab Use Only: Lab ID #	Lab Use Only: Preservative
12/4/15	12:50	X			4406 LINWOOD HOUSE			2	X	X	X							01	

RUSH

Relinquished by (Signature)	Date	Time	Received by (Signature)	Date	Time
	12/4/15	1:05		12-4-15	1:05
Relinquished by (Signature)	Date	Time	Received by (Signature)	Date	Time

Preservative: 1 4°C 2 HCL 3 NaOH 4 $Na_2S_2O_3$ 5 HNO_3 6 H_2SO_4 7 Other _____

Matrix: DW Drinking Water WW Waste Water HWW Hazardous Waste (Water) S Soil/Solid

Bailers _____ 55 Gallon Drums _____ Pump Truck ☐ Time Mileage

Turnaround Time ☐ Standard ☐ Silver Rush ☐ Gold Rush ☐ Platinum Rush ☐ Other

Approved By:

Exhibit 12

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # **B5L0408** **Project: Linwood Discharge** **Date:** 12/07/15

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 12/04/15

CERTIFICATE OF ANALYSIS

Sampler: Rui Avila

Sample ID: 4530 W Linwood

Lab ID	Sample Date / Time	RL	Method	Analyte	Result	Units	Notes	Started
B5L0408-01	12/04/2015 16:00	1.25	300.0	Nitrate Nitrogen (NO3-N)	**14.5**	mg/L		12/04/15 16:16
		10.0	SM 2540 C	Total Dissolved Solids (TDS)	**707**	mg/L		12/04/15 17:51
		NA	SM9223 (Colitag)	E. Coli	Absent	NA		12/04/15 17:55
		NA		Total Coliform	Absent	NA		"

Kanti Gandhi
Chemist

Donna Keller
Laboratory Director

Certification # 2585

Exhibit 12

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # B5L0408 **Project: Linwood Discharge** **Date:** 12/07/15

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 12/04/15

Inorganic Chemistry - Quality Control
GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B003501 - NO PREP				**Prepared: 12/02/15 Analyzed: 12/03/15**						
Blank (B003501-BLK1)										
Nitrate Nitrogen (NO3-N)	ND	0.25	mg/L							
LCS (B003501-BS1)										
Nitrate Nitrogen (NO3-N)	2.21	0.25	mg/L	2.258		98	80-120			
LCS Dup (B003501-BSD1)										
Nitrate Nitrogen (NO3-N)	1.93	0.25	mg/L	2.258		85	80-120	14	20	
Batch B003537 - NO PREP				**Prepared: 12/04/15 Analyzed: 12/07/15**						
Blank (B003537-BLK1)										
Total Dissolved Solids (TDS)	ND	10.0	mg/L							
Duplicate (B003537-DUP1)		**Source: B5L0403-01**								
Total Dissolved Solids (TDS)	772	10.0	mg/L		756			2	10	

Exhibit 12

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # B5L0408 **Project: Linwood Discharge** **Date:** 12/07/15

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 12/04/15

Microbiology - Quality Control
GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B003560 - BIO				**Prepared: 12/04/15 Analyzed: 12/05/15**						
Blank (B003560-BLK1)										
E. Coli	Absent		NA							
Total Coliform	Absent		"							
Duplicate (B003560-DUP1)		**Source: B5L0408-01**								
E. Coli	Absent		NA		Absent				0	
Total Coliform	Absent		"		Absent				0	

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # B5L0408 **Project: Linwood Discharge** **Date:** 12/07/15

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 12/04/15

Notes and Definitions

A	Absent
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
RL	Reporting Limit
NA	Not Applicable

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr
Turlock, CA 95380
Phone: (209) 669 0100
Fax: (209) 593 2212

Lab Report # B5L2408
Regulatory ☐ Yes ☐ No CC: ☐ Yes ☐ No
Regulator:
Phone: ( )
Fax: ( )
Original To:
C.C To:

Client: R+J Avila
Address: 8119 Ellington Ave
City Hilmar Zip 95324

CHAIN OF CUSTODY
☐ EDF ☐ EDT
☐ FIELD LOGS

Project ID Linwood Discharge

Sampled By (Print Name) Rui Avila
(Signature) R. Avila

Date	Time	Sample type Grab	Sample type Comp	Matrix	Sample ID	Container Type	Container Size	No. Of Containers	TDS	Nitrate as N	Bacte							Lab Use Only: Lab ID #	Lab Use Only: Preservative
12/4/15	4:00	X			4530 W. Linwood				X	X	X							01	

RUSH

Relinquished by (Signature)	Date	Time	Received by (Signature)	Date	Time
R. Avila	12/4/15	5:02	Monn Kelly	12-4-15	5:02
Relinquished by (Signature)	Date	Time	Received by (Signature)	Date	Time

Preservative: 1 4°C 2 HCL 3 NaOH 4 $Na_2S_2O_3$ 5 HNO_3 6 H_2SO_4 7 Other

Matrix: DW Drinking Water WW Waste Water HWW Hazardous Waste (Water) S Soil/Solid

Bailers 55 Gallon Drums Pump Truck ☐ Time Mileage

Turnaround Time ☐ Standard ☐ Silver Rush ☐ Gold Rush ☐ Platinum Rush ☐ Other

Approved By:

Exhibit 12

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # **B5L0402** **Project: Linwood Discharge** **Date:** 12/07/15

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 12/04/15

CERTIFICATE OF ANALYSIS

Sampler: Josh Davis

Sample ID: Dairy Well

Lab ID	Sample Date / Time	RL	Method	Analyte	Result	Units	Notes	Started
B5L0402-01	12/04/2015 10:30	0.25	300.0	Nitrate Nitrogen (NO3-N)	**1.39**	mg/L		12/04/15 14:16
		10.0	SM 2540 C	Total Dissolved Solids (TDS)	**131**	mg/L		12/04/15 17:51
		NA	SM9223 (Colitag)	E. Coli	Absent	NA		12/04/15 13:40
		NA		Total Coliform	Absent	NA		"

Kanti Gandhi
Chemist

Donna Keller
Laboratory Director

Certification # 2585

Exhibit 12

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # B5L0402 **Project: Linwood Discharge** **Date:** 12/07/15

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 12/04/15

Inorganic Chemistry - Quality Control
GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B003501 - NO PREP				**Prepared: 12/02/15 Analyzed: 12/03/15**						
Blank (B003501-BLK1)										
Nitrate Nitrogen (NO3-N)	ND	0.25	mg/L							
LCS (B003501-BS1)										
Nitrate Nitrogen (NO3-N)	2.21	0.25	mg/L	2.258		98	80-120			
LCS Dup (B003501-BSD1)										
Nitrate Nitrogen (NO3-N)	1.93	0.25	mg/L	2.258		85	80-120	14	20	
Batch B003537 - NO PREP				**Prepared: 12/04/15 Analyzed: 12/07/15**						
Blank (B003537-BLK1)										
Total Dissolved Solids (TDS)	ND	10.0	mg/L							
Duplicate (B003537-DUP1)		**Source: B5L0403-01**								
Total Dissolved Solids (TDS)	772	10.0	mg/L		756			2	10	

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # B5L0402 **Project: Linwood Discharge** **Date:** 12/07/15

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 12/04/15

Microbiology - Quality Control
GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B003560 - BIO			**Prepared: 12/04/15 Analyzed: 12/05/15**							
Blank (B003560-BLK1)										
E. Coli	Absent		NA							
Total Coliform	Absent		"							
Duplicate (B003560-DUP1)		**Source: B5L0408-01**								
E. Coli	Absent		NA		0.0				0	
Total Coliform	Absent		"		0.0				0	

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # **B5L0402** **Project: Linwood Discharge** **Date:** 12/07/15

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 12/04/15

Notes and Definitions

A	Absent
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
RL	Reporting Limit
NA	Not Applicable

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr
Turlock, CA 95380

Phone: (209) 669 0100
Fax: (209) 593 2212

Lab Report # B5L3402

Regulatory ☐ Yes ☐ No CC: ☐ Yes ☐ No

Regulator: _____

Phone: ( ) _____

Fax: ( ) _____

Original To: _____

C.C To: _____

Client: R+J AVILA, INC.

Address: 8119 ELLINGTON AVE

City HILMAR, CA Zip 95324

CHAIN OF CUSTODY

☐ EDF ☐ EDT

☐ FIELD LOGS

Project ID LINWOOD DISCHARGE

Sampled By (Print Name) JOSH DAVIS

(Signature)

Date	Time	Sample type Grab	Comp	Matrix	Sample ID	Container Type	Size	No. Of Containers	NITRATE AS N	TDS	Bact / PA							Lab Use Only Lab ID #	Preservative
12/4/15	10:30	X			DAIRY WELL			2	X	X	X							01	

RUSH

Relinquished by (Signature)	Date	Time	Received by (Signature)	Date	Time
	12/4/15	11:40		12-4-15	11:40
Relinquished by (Signature)	Date	Time	Received by (Signature)	Date	Time

Preservative: 1 4°C 2 HCL 3 NaOH 4 $Na_2S_2O_3$ 5 HNO_3 6 H_2SO_4 7 Other _____

Matrix: DW Drinking Water WW Waste Water HWW Hazardous Waste (Water) S Soil/Solid

Bailers _____ 55 Gallon Drums _____

Pump Truck ☐ Time Mileage

Turnaround Time ☐ Standard ☐ Silver Rush ☐ Gold Rush ☐ Platinum Rush ☐ Other

Approved By: _____

Exhibit 12

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # C6A2010 **Project: Linwood Discharge** **Date:** 01/25/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 01/20/16

CERTIFICATE OF ANALYSIS

Sampler: Rui Avila

Sample ID: 1600 S. Washington

Lab ID	Sample Date / Time	RL	Method	Analyte	Result	Units	Notes	Started
C6A2010-01	1/20/2016 11:05	0.40	300.0	Nitrate as N	**3.47**	mg/L		01/20/16 14:57
		10.0	SM 2540 C	Total Dissolved Solids (TDS)	**312**	mg/L		01/21/16 10:35
		NA	SM9223 (Colitag)	E. Coli	Absent	NA		01/20/16 16:35
		NA		Total Coliform	Absent	NA		"

Kanti Gandhi
Chemist

Donna Keller
Laboratory Director

Certification # 2585

Exhibit 12

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # C6A2010 **Project: Linwood Discharge** **Date:** 01/25/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 01/20/16

Inorganic Chemistry - Quality Control
GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch C000194 - NO PREP				**Prepared: 01/19/16 Analyzed: 01/22/16**						
Blank (C000194-BLK1)										
Nitrate as N	ND	0.40	mg/L							
LCS (C000194-BS1)										
Nitrate as N	2.02	0.40	mg/L	2.258		89	85-115			
LCS Dup (C000194-BSD1)										
Nitrate as N	2.00	0.40	mg/L	2.258		88	85-115	0.9	20	
Matrix Spike (C000194-MS1)		**Source: C6A1905-02**								
Nitrate as N	16.7	0.40	mg/L	2.258	14.6	93	85-115			
Matrix Spike Dup (C000194-MSD1)		**Source: C6A1905-02**								
Nitrate as N	16.7	0.40	mg/L	2.258	14.6	93	85-115	0.03	20	
Batch C000223 - NO PREP				**Prepared: 01/21/16 Analyzed: 01/22/16**						
Blank (C000223-BLK1)										
Total Dissolved Solids (TDS)	ND	10.0	mg/L							
Duplicate (C000223-DUP1)		**Source: C6A1914-01**								
Total Dissolved Solids (TDS)	359	10.0	mg/L		353			2	10	

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # C6A2010 **Project: Linwood Discharge** **Date:** 01/25/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 01/20/16

Microbiology - Quality Control
GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch C000212 - BIO				**Prepared: 01/20/16 Analyzed: 01/21/16**						
Blank (C000212-BLK1)										
E. Coli	Absent		NA							
Total Coliform	Absent		"							
Duplicate (C000212-DUP1)		**Source: C6A2016-05**								
E. Coli	Absent		NA		0.0				0	
Total Coliform	Absent		"		0.0				0	

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # C6A2010 **Project: Linwood Discharge** **Date:** 01/25/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 01/20/16

Notes and Definitions

A	Absent
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
RL	Reporting Limit
NA	Not Applicable

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr
Turlock, CA 95380

Phone: (209) 669 0100
Fax: (209) 593 2212

Lab Report # C6A2010
Regulatory ☐ Yes ☐ No CC: ☐ Yes ☐ No
Regulator:
Phone: (209) 669-7919
Fax: (209) 250-1919
Original To: frontdesk@randjavila.com
C.C To:

Client: R & J Avila, Inc.
Address: 8119 Ellington Ave
City Hilmar Zip 95324

CHAIN OF CUSTODY

☐ EDF ☐ EDT
☐ FIELD LOGS

Project ID Linwood Discharge

Sampled By (Print Name) Rui Avila
(Signature) R. Avila

Date	Time	Sample type Grab	Sample type Comp	Matrix	Sample ID	Container Type	Container Size	No. Of Containers	Nitrate as N	TDS	E. Coli (P/A)	Total Coliform (P/A)						Lab Use Only: Lab ID #	Lab Use Only: Preservative
1-20-16	11:05 am	✓		DW	1600 S. Washington		1L	1	✓	✓								-01	
1-20-16	11:05 am	✓		DW	1600 S. Washington		100ml	1			✓	✓							

Relinquished by (Signature)	Date	Time	Received by (Signature)	Date	Time
R. Avila	1/20/16	1:58	[illegible]	1-20-16	13:58
Relinquished by (Signature)	Date	Time	Received by (Signature)	Date	Time

Preservative: 1 4°C 2 HCL 3 NaOH 4 $Na_2S_2O_3$ 5 HNO_3 6 H_2SO_4 7 Other _____

Matrix: DW Drinking Water WW Waste Water HWW Hazardous Waste (Water) S Soil/Solid

Bailers _____ 55 Gallon Drums _____

Pump Truck ☐ Time Mileage

Approved By:

Turnaround Time ☐ Standard ☐ Silver Rush ☐ Gold Rush ☐ Platinum Rush ☐ Other

Exhibit 12

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # C6A2011 **Project: Linwood Discharge** **Date:** 01/25/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 01/20/16

CERTIFICATE OF ANALYSIS

Sampler: Rui Avila

Sample ID: 1624 S. Washington

Lab ID	Sample Date / Time	RL	Method	Analyte	Result	Units	Notes	Started
C6A2011-01	1/20/2016 11:30	0.40	300.0	Nitrate as N	**24.9**	mg/L		01/20/16 14:57
		10.0	SM 2540 C	Total Dissolved Solids (TDS)	**845**	mg/L		01/21/16 10:35
		NA	SM9223 (Colitag)	E. Coli	Absent	NA		01/20/16 16:35
		NA		Total Coliform	Absent	NA		"

Kanti Gandhi
Chemist

Donna Keller
Laboratory Director

Certification # 2585

Exhibit 12

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212

email: info@geoanalyticallab.com

Report # C6A2011 **Project: Linwood Discharge** **Date:** 01/25/16

R & J Avila **Date Rec'd:** 01/20/16
8119 Ellington Avenue
Hilmar, CA 95324

Inorganic Chemistry - Quality Control

GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch C000194 - NO PREP				**Prepared: 01/19/16 Analyzed: 01/22/16**						
Blank (C000194-BLK1)										
Nitrate as N	ND	0.40	mg/L							
LCS (C000194-BS1)										
Nitrate as N	2.02	0.40	mg/L	2.258		89	85-115			
LCS Dup (C000194-BSD1)										
Nitrate as N	2.00	0.40	mg/L	2.258		88	85-115	0.9	20	
Matrix Spike (C000194-MS1)		**Source: C6A1905-02**								
Nitrate as N	16.7	0.40	mg/L	2.258	14.6	93	85-115			
Matrix Spike Dup (C000194-MSD1)		**Source: C6A1905-02**								
Nitrate as N	16.7	0.40	mg/L	2.258	14.6	93	85-115	0.03	20	
Batch C000223 - NO PREP				**Prepared: 01/21/16 Analyzed: 01/22/16**						
Blank (C000223-BLK1)										
Total Dissolved Solids (TDS)	ND	10.0	mg/L							
Duplicate (C000223-DUP1)		**Source: C6A1914-01**								
Total Dissolved Solids (TDS)	359	10.0	mg/L		353			2	10	

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # C6A2011 **Project: Linwood Discharge** **Date:** 01/25/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 01/20/16

Microbiology - Quality Control
GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch C000213 - BIO				**Prepared: 01/20/16 Analyzed: 01/21/16**						
Blank (C000213-BLK1)										
E. Coli	Absent		NA							
Total Coliform	Absent		"							
Duplicate (C000213-DUP1)		**Source: C6A2016-04**								
E. Coli	Absent		NA		0.0				0	
Total Coliform	Absent		"		0.0				0	

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # C6A2011 **Project: Linwood Discharge** **Date:** 01/25/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 01/20/16

Notes and Definitions

A	Absent
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
RL	Reporting Limit
NA	Not Applicable

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr
Turlock, CA 95380

Phone: (209) 669 0100
Fax: (209) 593 2212

Lab Report # C6A2011
Regulatory ☐ Yes ☐ No CC: ☐ Yes ☐ No
Regulator:
Phone: (209) 669-7919
Fax: (209) 250-1919
Original To: frontdesk@randjavila.com
C.C To:

Client: R & J Avila, Inc.
Address: 8119 Ellington Ave
City Hilmar Zip 95324

CHAIN OF CUSTODY

☐ EDF ☐ EDT
☐ FIELD LOGS

Project ID Linwood Discharge

Sampled By (Print Name) Rui Avila
(Signature) R-Avila

Date	Time	Sample type Grab	Sample type Comp	Matrix	Sample ID	Container Type	Container Size	No. Of Containers	Nitrate as N	TDS	E. Coli (P/A)	Total Coliform (P/A)						Lab Use Only: Lab ID #	Lab Use Only: Preservative
1-20-16	11:30am	✓		[redacted]	1624 S. Washington	[redacted]	1L	1	✓	✓								-01	
1-20-16	11:30am	✓		[redacted]	1624 S. Washington	[redacted]	100ml	1			✓	✓							

Relinquished by (Signature)	Date	Time	Received by (Signature)	Date	Time
R-Avila	1/20/16	1:58	[signature]	1-20-16	13:58
Relinquished by (Signature)	Date	Time	Received by (Signature)	Date	Time

Preservative: 1 4°C 2 HCL 3 NaOH 4 $Na_2S_2O_3$ 5 HNO_3 6 H_2SO_4 7 Other _____

Matrix: DW Drinking Water WW Waste Water HWW Hazardous Waste (Water) S Soil/Solid

Bailers _____ 55 Gallon Drums _____

Pump Truck ☐ Time Mileage

Approved By: _____

Turnaround Time ☐ Standard ☐ Silver Rush ☐ Gold Rush ☐ Platinum Rush ☐ Other

Exhibit 12

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # C6A2008 **Project: Linwood Discharge** **Date:** 01/25/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 01/20/16

CERTIFICATE OF ANALYSIS

Sampler: Rui Avila

Sample ID: 4030 Linwood House

Lab ID	Sample Date / Time	RL	Method	Analyte	Result	Units	Notes	Started
C6A2008-01	1/20/2016 10:00	2.00	300.0	Nitrate as N	**26.9**	mg/L		01/20/16 14:57
		10.0	SM 2540 C	Total Dissolved Solids (TDS)	**892**	mg/L		01/21/16 10:35
		NA	SM9223 (Colitag)	E. Coli	Absent	NA		01/20/16 16:35
		NA		Total Coliform	Absent	NA		"

Kanti Gandhi
Chemist

Donna Keller
Laboratory Director

Certification # 2585

Exhibit 12

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # C6A2008 **Project: Linwood Discharge** **Date:** 01/25/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 01/20/16

Inorganic Chemistry - Quality Control
GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch C000194 - NO PREP				**Prepared: 01/19/16 Analyzed: 01/22/16**						
Blank (C000194-BLK1)										
Nitrate as N	ND	0.40	mg/L							
LCS (C000194-BS1)										
Nitrate as N	2.02	0.40	mg/L	2.258		89	85-115			
LCS Dup (C000194-BSD1)										
Nitrate as N	2.00	0.40	mg/L	2.258		88	85-115	0.9	20	
Matrix Spike (C000194-MS1)		**Source: C6A1905-02**								
Nitrate as N	16.7	0.40	mg/L	2.258	14.6	93	85-115			
Matrix Spike Dup (C000194-MSD1)		**Source: C6A1905-02**								
Nitrate as N	16.7	0.40	mg/L	2.258	14.6	93	85-115	0.03	20	
Batch C000223 - NO PREP				**Prepared: 01/21/16 Analyzed: 01/22/16**						
Blank (C000223-BLK1)										
Total Dissolved Solids (TDS)	ND	10.0	mg/L							
Duplicate (C000223-DUP1)		**Source: C6A1914-01**								
Total Dissolved Solids (TDS)	359	10.0	mg/L		353			2	10	

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212

email: info@geoanalyticallab.com

Report # C6A2008 **Project: Linwood Discharge** **Date:** 01/25/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 01/20/16

Microbiology - Quality Control

GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch C000212 - BIO			**Prepared: 01/20/16 Analyzed: 01/21/16**							
Blank (C000212-BLK1)										
E. Coli	Absent		NA							
Total Coliform	Absent		"							
Duplicate (C000212-DUP1)		**Source: C6A2016-05**								
E. Coli	Absent		NA		0.0				0	
Total Coliform	Absent		"		0.0				0	

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212

email: info@geoanalyticallab.com

Report # C6A2008 **Project: Linwood Discharge** **Date:** 01/25/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 01/20/16

Notes and Definitions

A	Absent
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
RL	Reporting Limit
NA	Not Applicable

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr
Turlock, CA 95380

Phone: (209) 669 0100
Fax: (209) 593 2212

Lab Report # CGA 2008
Regulatory ☐ Yes ☐ No CC: ☐ Yes ☐ No
Regulator:
Phone: (209) 669-7919
Fax: (209) 250-1919
Original To: frontdesk@randjavila.com
C.C To:

Client: R & J Avila, Inc.
Address: 8119 Ellington Ave
City Hilmar Zip 95324

CHAIN OF CUSTODY

☐ EDF ☐ EDT
☐ FIELD LOGS

Project ID Linwood Discharge

Sampled By (Print Name) Rui Avila
(Signature) R. Avila

Date	Time	Sample type Grab	Sample type Comp	Matrix	Sample ID	Container Type	Container Size	No. Of Containers	Nitrate as N	TDS	E. Coli (P/A)	Total Coliform (P/A)						Lab Use Only: Lab ID #	Lab Use Only: Preservative
1-20-16	10:00 Am	✓		[redacted]	4030 Linwood House	[redacted]	1L	1	✓	✓								-01	
1-20-16	10:00 Am	✓		[redacted]	4030 Linwood House	[redacted]	100ml	1			✓	✓						-02	

Relinquished by (Signature)	Date	Time	Received by (Signature)	Date	Time
R. Avila	1/20/16	1:58	[signature]	1-20-16	13:58
Relinquished by (Signature)	Date	Time	Received by (Signature)	Date	Time

Preservative: 1 4°C 2 HCL 3 NaOH 4 $Na_2S_2O_3$ 5 HNO_3 6 H_2SO_4 7 Other _____

Matrix: DW Drinking Water WW Waste Water HWW Hazardous Waste (Water) S Soil/Solid

Bailers _____ 55 Gallon Drums _____

Pump Truck ☐ Time Mileage

Approved By: _____

Turnaround Time ☐ Standard ☐ Silver Rush ☐ Gold Rush ☐ Platinum Rush ☐ Other

Exhibit 12

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # C6A2020 **Project: Linwood Discharge** **Date:** 01/28/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 01/20/16

CERTIFICATE OF ANALYSIS

Sampler: Rui Avila

Sample ID: 4200 W Linwood

Lab ID	Sample Date / Time	RL	Method	Analyte	Result	Units	Notes	Started
C6A2020-01	1/20/2016 15:55	0.40	300.0	Nitrate as N	**22.3**	mg/L		01/21/16 07:16
		10.0	SM 2540 C	Total Dissolved Solids (TDS)	**841**	mg/L		01/21/16 10:35
		NA	SM9223 (Colitag)	E. Coli	Absent	NA		01/20/16 17:15
		NA		Total Coliform	Absent	NA		"

Kanti Gandhi
Chemist

Donna Keller
Laboratory Director

Certification # 2585

Exhibit 12

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # C6A2020 **Project: Linwood Discharge** **Date:** 01/28/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 01/20/16

Inorganic Chemistry - Quality Control
GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch C000208 - NO PREP				**Prepared: 01/21/16 Analyzed: 01/22/16**						
Blank (C000208-BLK1)										
Nitrate as N	ND	0.40	mg/L							
LCS (C000208-BS1)										
Nitrate as N	1.93	0.40	mg/L	2.258		86	85-115			
LCS Dup (C000208-BSD1)										
Nitrate as N	1.94	0.40	mg/L	2.258		86	85-115	0.2	20	
Matrix Spike (C000208-MS1)		**Source: C6A2019-01**								
Nitrate as N	25.6	0.40	mg/L	2.258	21.4	186	85-115			QM-02
Matrix Spike Dup (C000208-MSD1)		**Source: C6A2019-01**								
Nitrate as N	25.6	0.40	mg/L	2.258	21.4	187	85-115	0.1	20	QM-02
Batch C000223 - NO PREP				**Prepared: 01/21/16 Analyzed: 01/22/16**						
Blank (C000223-BLK1)										
Total Dissolved Solids (TDS)	ND	10.0	mg/L							
Duplicate (C000223-DUP1)		**Source: C6A1914-01**								
Total Dissolved Solids (TDS)	359	10.0	mg/L		353			2	10	

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # C6A2020 **Project: Linwood Discharge** **Date:** 01/28/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 01/20/16

Microbiology - Quality Control
GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch C000215 - BIO				**Prepared: 01/02/16 Analyzed: 01/21/16**						
Blank (C000215-BLK1)										
E. Coli	Absent		NA							
Total Coliform	Absent		"							

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212

email: info@geoanalyticallab.com

Report # C6A2020 **Project: Linwood Discharge** **Date:** 01/28/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 01/20/16

Notes and Definitions

QM-02	The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.
A	Absent
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
RL	Reporting Limit
NA	Not Applicable

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr
Turlock, CA 95380

Phone: (209) 669 0100
Fax: (209) 593 2212

Lab Report # C16A2020

Regulatory ☐ Yes ☐ No CC: ☐ Yes ☐ No

Regulator:

Phone: (209) 669-7919

Fax: (209) 250-1919

Original To: frontdesk@randjavila.com

C.C To:

Client: R & J Avila, Inc.

Address: 8119 Ellington Ave

City Hilmar Zip 95324

CHAIN OF CUSTODY

☐ EDF ☐ EDT

☐ FIELD LOGS

Project ID Linwood Discharge

Sampled By (Print Name) Rui Avila

(Signature) R. Avila

Date	Time	Sample type Grab	Sample type Comp	Matrix	Sample ID	Container Type	Container Size	No. Of Containers	Nitrate as N	TDS	E. Coli (P/A)	Total Coliform (P/A)						Lab ID #	Preservative
1-20-16	3:55pm	✓			4200 W. Linwood		1L	1	✓	✓								-01	
1-20-16	3:55pm	✓			4200 W. Linwood		100ml	1			✓	✓							

Lab Use Only

Relinquished by (Signature)	Date	Time	Received by (Signature)	Date	Time
R. Avila	1/20/16	4:22	[illegible]	1-20-16	16:22
Relinquished by (Signature)	Date	Time	Received by (Signature)	Date	Time

Preservative: 1 4°C 2 HCL 3 NaOH 4 $Na_2S_2O_3$ 5 HNO_3 6 H_2SO_4 7 Other _____

Matrix: DW Drinking Water WW Waste Water HWW Hazardous Waste (Water) S Soil/Solid

Bailers _____ 55 Gallon Drums _____

Pump Truck ☐ Time Mileage

Turnaround Time ☐ Standard ☐ Silver Rush ☐ Gold Rush ☐ Platinum Rush ☐ Other

Approved By:

Exhibit 12

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # C6A2009 **Project: Linwood Discharge** **Date:** 01/25/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 01/20/16

CERTIFICATE OF ANALYSIS

Sampler: Rui Avila

Sample ID: Dairy Well 4207 Linwood

Lab ID	Sample Date / Time	RL	Method	Analyte	Result	Units	Notes	Started
C6A2009-01	1/20/2016 11:50	0.40	300.0	Nitrate as N	**1.38**	mg/L		01/20/16 14:57
		10.0	SM 2540 C	Total Dissolved Solids (TDS)	**192**	mg/L		01/21/16 10:35
		NA	SM9223 (Colitag)	E. Coli	Absent	NA		01/20/16 16:35
		NA		Total Coliform	Absent	NA		"

Kanti Gandhi
Chemist

Donna Keller
Laboratory Director

Certification # 2585

Exhibit 12

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # C6A2009 **Project: Linwood Discharge** **Date:** 01/25/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 01/20/16

Inorganic Chemistry - Quality Control

GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch C000194 - NO PREP				**Prepared: 01/19/16 Analyzed: 01/22/16**						
Blank (C000194-BLK1)										
Nitrate as N	ND	0.40	mg/L							
LCS (C000194-BS1)										
Nitrate as N	2.02	0.40	mg/L	2.258		89	85-115			
LCS Dup (C000194-BSD1)										
Nitrate as N	2.00	0.40	mg/L	2.258		88	85-115	0.9	20	
Matrix Spike (C000194-MS1)		**Source: C6A1905-02**								
Nitrate as N	16.7	0.40	mg/L	2.258	14.6	93	85-115			
Matrix Spike Dup (C000194-MSD1)		**Source: C6A1905-02**								
Nitrate as N	16.7	0.40	mg/L	2.258	14.6	93	85-115	0.03	20	
Batch C000223 - NO PREP				**Prepared: 01/21/16 Analyzed: 01/22/16**						
Blank (C000223-BLK1)										
Total Dissolved Solids (TDS)	ND	10.0	mg/L							
Duplicate (C000223-DUP1)		**Source: C6A1914-01**								
Total Dissolved Solids (TDS)	359	10.0	mg/L		353			2	10	

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # C6A2009 **Project: Linwood Discharge** **Date:** 01/25/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 01/20/16

Microbiology - Quality Control
GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch C000212 - BIO			**Prepared: 01/20/16 Analyzed: 01/21/16**							
Blank (C000212-BLK1)										
E. Coli	Absent		NA							
Total Coliform	Absent		"							
Duplicate (C000212-DUP1)		**Source: C6A2016-05**								
E. Coli	Absent		NA		0.0				0	
Total Coliform	Absent		"		0.0				0	

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # C6A2009 **Project: Linwood Discharge** **Date:** 01/25/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 01/20/16

Notes and Definitions

A	Absent
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
RL	Reporting Limit
NA	Not Applicable

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr
Turlock, CA 95380

Phone: (209) 669 0100
Fax: (209) 593 2212

Lab Report # C6A2009
Regulatory ☐ Yes ☐ No CC: ☐ Yes ☐ No
Regulator:
Phone: (209) 669-7919
Fax: (209) 250-1919
Original To: frontdesk@randjavila.com
C.C To:

Client: R & J Avila, Inc.
Address: 8119 Ellington Ave
City Hilmar Zip 95324

CHAIN OF CUSTODY

☐ EDF ☐ EDT
☐ FIELD LOGS

Project ID Linwood Discharge

Sampled By (Print Name) Rui Avila
(Signature) R. Avila

Date	Time	Sample type Grab	Sample type Comp	Matrix	Sample ID	Container Type	Container Size	No. Of Containers	Nitrate as N	TDS	E. Coli (P/A)	Total Coliform (P/A)						Lab Use Only: Lab ID #	Lab Use Only: Preservative
1-20-16	11:50 AM	✓			Dairy Well 4207 Linwood		1L	1	✓	✓								-01	
1-20-16	11:50 AM	✓			Dairy Well 4207 Linwood		100ml	1			✓	✓							

Relinquished by (Signature)	Date	Time	Received by (Signature)	Date	Time
R. Avila	1/20/16	1:58	[illegible]	1-20-16	13:58
Relinquished by (Signature)	Date	Time	Received by (Signature)	Date	Time

Preservative: 1 4°C 2 HCL 3 NaOH 4 $Na_2S_2O_3$ 5 HNO_3 6 H_2SO_4 7 Other _____

Matrix: DW Drinking Water WW Waste Water HWW Hazardous Waste (Water) S Soil/Solid

Pump Truck ☐ Time Mileage

Bailers _____ 55 Gallon Drums _____

Approved By: _____

Turnaround Time ☐ Standard ☐ Silver Rush ☐ Gold Rush ☐ Platinum Rush ☐ Other

Exhibit 12

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # C6A2013 **Project: Linwood Discharge** **Date:** 01/25/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 01/20/16

CERTIFICATE OF ANALYSIS

Sampler: Rui Avila

Sample ID: 4230 W Linwood

Lab ID	Sample Date / Time	RL	Method	Analyte	Result	Units	Notes	Started
C6A2013-01	1/20/2016 12:25	0.40	300.0	Nitrate as N	**15.3**	mg/L		01/20/16 14:57
		10.0	SM 2540 C	Total Dissolved Solids (TDS)	**911**	mg/L		01/21/16 10:35
		NA	SM9223 (Colitag)	E. Coli	Absent	NA		01/20/16 16:35
		NA		Total Coliform	Absent	NA		"

Kanti Gandhi
Chemist

Donna Keller
Laboratory Director

Certification # 2585

Exhibit 12

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # C6A2013 **Project: Linwood Discharge** **Date:** 01/25/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 01/20/16

Inorganic Chemistry - Quality Control

GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch C000194 - NO PREP				**Prepared: 01/19/16 Analyzed: 01/22/16**						
Blank (C000194-BLK1)										
Nitrate as N	ND	0.40	mg/L							
LCS (C000194-BS1)										
Nitrate as N	2.02	0.40	mg/L	2.258		89	85-115			
LCS Dup (C000194-BSD1)										
Nitrate as N	2.00	0.40	mg/L	2.258		88	85-115	0.9	20	
Matrix Spike (C000194-MS1)		**Source: C6A1905-02**								
Nitrate as N	16.7	0.40	mg/L	2.258	14.6	93	85-115			
Matrix Spike Dup (C000194-MSD1)		**Source: C6A1905-02**								
Nitrate as N	16.7	0.40	mg/L	2.258	14.6	93	85-115	0.03	20	
Batch C000223 - NO PREP				**Prepared: 01/21/16 Analyzed: 01/22/16**						
Blank (C000223-BLK1)										
Total Dissolved Solids (TDS)	ND	10.0	mg/L							
Duplicate (C000223-DUP1)		**Source: C6A1914-01**								
Total Dissolved Solids (TDS)	359	10.0	mg/L		353			2	10	

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212

email: info@geoanalyticallab.com

Report # C6A2013 **Project: Linwood Discharge** **Date:** 01/25/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 01/20/16

Microbiology - Quality Control

GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch C000213 - BIO			**Prepared: 01/20/16 Analyzed: 01/21/16**							
Blank (C000213-BLK1)										
E. Coli	Absent		NA							
Total Coliform	Absent		"							
Duplicate (C000213-DUP1)		**Source: C6A2016-04**								
E. Coli	Absent		NA		0.0				0	
Total Coliform	Absent		"		0.0				0	

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # C6A2013 **Project: Linwood Discharge** **Date:** 01/25/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 01/20/16

Notes and Definitions

A	Absent
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
RL	Reporting Limit
NA	Not Applicable

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr
Turlock, CA 95380

Phone: (209) 669 0100
Fax: (209) 593 2212

Lab Report # C6A2013
Regulatory ☐Yes ☐No CC: ☐Yes ☐No
Regulator:
Phone: (209) 669-7919
Fax: (209) 250-1919
Original To: frontdesk@randjavila.com
C.C To:

Client: R & J Avila, Inc.
Address: 8119 Ellington Ave
City Hilmar Zip 95324

CHAIN OF CUSTODY

☐EDF ☐EDT
☐ FIELD LOGS

Project ID Linwood Discharge

Sampled By (Print Name) Rui Avila
(Signature)

Date	Time	Sample type Grab	Sample type Comp	Matrix	Sample ID	Container Type	Container Size	No. Of Containers	Nitrate as N	TDS	E. Coli (P/A)	Total Coliform (P/A)						Lab Use Only: Lab ID #	Lab Use Only: Preservative
1-20-16	12:25pm	✓			4230 W. Linwood		1L	1	✓	✓								-01	
1-20-16	12:25 pm	✓			4230 W. Linwood		100ml	1			✓	✓							

Relinquished by (Signature) Date 1/20/16 Time 1:58 Received by (Signature) Date 1-20-16 Time 13:58
Relinquished by (Signature) Date Time Received by (Signature) Date Time

Preservative: 1 4°C 2 HCL 3 NaOH 4 $Na_2S_2O_3$ 5 HNO_3 6 H_2SO_4 7 Other

Matrix: DW Drinking Water WW Waste Water HWW Hazardous Waste (Water) S Soil/Solid

Bailers 55 Gallon Drums

Pump Truck ☐ Time Mileage

Approved By:

Turnaround Time ☐Standard ☐Silver Rush ☐Gold Rush ☐Platinum Rush ☐Other

Exhibit 12

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # C6A2019 **Project: Linwood Discharge** **Date:** 01/28/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 01/20/16

CERTIFICATE OF ANALYSIS

Sampler: Rui Avila

Sample ID: 4318 W Linwood

Lab ID	Sample Date / Time	RL	Method	Analyte	Result	Units	Notes	Started
C6A2019-01	1/20/2016 16:10	2.00	300.0	Nitrate as N	**21.4**	mg/L		01/21/16 07:16
		10.0	SM 2540 C	Total Dissolved Solids (TDS)	**1210**	mg/L		01/21/16 10:35
		NA	SM9223 (Colitag)	E. Coli	Absent	NA		01/20/16 17:15
		NA		Total Coliform	Absent	NA		"

Kanti Gandhi
Chemist

Donna Keller
Laboratory Director

Certification # 2585

Exhibit 12

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # C6A2019 **Project: Linwood Discharge** **Date:** 01/28/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 01/20/16

Inorganic Chemistry - Quality Control
GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch C000208 - NO PREP				**Prepared: 01/21/16 Analyzed: 01/22/16**						
Blank (C000208-BLK1)										
Nitrate as N	ND	0.40	mg/L							
LCS (C000208-BS1)										
Nitrate as N	1.93	0.40	mg/L	2.258		86	85-115			
LCS Dup (C000208-BSD1)										
Nitrate as N	1.94	0.40	mg/L	2.258		86	85-115	0.2	20	
Matrix Spike (C000208-MS1)		**Source: C6A2019-01**								
Nitrate as N	25.6	0.40	mg/L	2.258	21.4	186	85-115			QM-02
Matrix Spike Dup (C000208-MSD1)		**Source: C6A2019-01**								
Nitrate as N	25.6	0.40	mg/L	2.258	21.4	187	85-115	0.1	20	QM-02
Batch C000223 - NO PREP				**Prepared: 01/21/16 Analyzed: 01/22/16**						
Blank (C000223-BLK1)										
Total Dissolved Solids (TDS)	ND	10.0	mg/L							
Duplicate (C000223-DUP1)		**Source: C6A1914-01**								
Total Dissolved Solids (TDS)	359	10.0	mg/L		353			2	10	

Exhibit 12

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # C6A2019 **Project: Linwood Discharge** **Date:** 01/28/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 01/20/16

Microbiology - Quality Control
GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch C000215 - BIO				**Prepared: 01/02/16 Analyzed: 01/21/16**						
Blank (C000215-BLK1)										
E. Coli	Absent		NA							
Total Coliform	Absent		"							

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212

email: info@geoanalyticallab.com

Report # C6A2019 **Project: Linwood Discharge** **Date:** 01/28/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 01/20/16

Notes and Definitions

QM-02	The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.
A	Absent
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
RL	Reporting Limit
NA	Not Applicable

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr
Turlock, CA 95380

Phone: (209) 669 0100
Fax: (209) 593 2212

Lab Report # C16A2U17

Regulatory ☐ Yes ☐ No CC: ☐ Yes ☐ No

Regulator:

Phone: (209) 669-7919

Fax: (209) 250-1919

Original To: frontdesk@randjavila.com

C.C To:

Client: R & J Avila, Inc.

Address: 8119 Ellington Ave

City Hilmar Zip 95324

CHAIN OF CUSTODY

☐ EDF ☐ EDT

☐ FIELD LOGS

Project ID Linwood Discharge

Sampled By (Print Name) Rui Avila

(Signature) R. Avila

Date	Time	Sample type Grab	Sample type Comp	Matrix	Sample ID	Container Type	Container Size	No. Of Containers	Nitrate as N	TDS	E. Coli (P/A)	Total Coliform (P/A)						Lab ID #	Preservative
1-20-16	4:10 pm	✓			4318 W. Linwood		1L	1	✓	✓								-01	
1-20-16	4:10 pm	✓			4318 W. Linwood		100ml	1			✓	✓							

Lab Use Only

Relinquished by (Signature)	Date	Time	Received by (Signature)	Date	Time
R. Avila	1/20/16	4:22	[illegible]	1-20-16	16:22
Relinquished by (Signature)	Date	Time	Received by (Signature)	Date	Time

Preservative: 1 4°C 2 HCL 3 NaOH 4 $Na_2S_2O_3$ 5 HNO_3 6 H_2SO_4 7 Other _____

Matrix: DW Drinking Water WW Waste Water HWW Hazardous Waste (Water) S Soil/Solid

Bailers _____ 55 Gallon Drums _____

Pump Truck ☐ Time Mileage

Turnaround Time ☐ Standard ☐ Silver Rush ☐ Gold Rush ☐ Platinum Rush ☐ Other

Approved By:

Exhibit 12

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # C6A2021 **Project: Linwood Discharge** **Date:** 01/28/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 01/20/16

CERTIFICATE OF ANALYSIS

Sampler: Rui Avila

Sample ID: 4406 Linwood House

Lab ID	Sample Date / Time	RL	Method	Analyte	Result	Units	Notes	Started
C6A2021-01	1/20/2016 15:40	0.40	300.0	Nitrate as N	**17.3**	mg/L		01/21/16 07:16
		10.0	SM 2540 C	Total Dissolved Solids (TDS)	**936**	mg/L		01/21/16 10:35
		NA	SM9223 (Colitag)	E. Coli	Absent	NA		01/20/16 17:15
		NA		Total Coliform	Absent	NA		"

Kanti Gandhi
Chemist

Donna Keller
Laboratory Director

Certification # 2585

Exhibit 12

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # C6A2021 **Project: Linwood Discharge** **Date:** 01/28/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 01/20/16

Inorganic Chemistry - Quality Control

GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch C000208 - NO PREP				**Prepared: 01/21/16 Analyzed: 01/22/16**						
Blank (C000208-BLK1)										
Nitrate as N	ND	0.40	mg/L							
LCS (C000208-BS1)										
Nitrate as N	1.93	0.40	mg/L	2.258		86	85-115			
LCS Dup (C000208-BSD1)										
Nitrate as N	1.94	0.40	mg/L	2.258		86	85-115	0.2	20	
Matrix Spike (C000208-MS1)		**Source: C6A2019-01**								
Nitrate as N	25.6	0.40	mg/L	2.258	21.4	186	85-115			QM-02
Matrix Spike Dup (C000208-MSD1)		**Source: C6A2019-01**								
Nitrate as N	25.6	0.40	mg/L	2.258	21.4	187	85-115	0.1	20	QM-02
Batch C000223 - NO PREP				**Prepared: 01/21/16 Analyzed: 01/22/16**						
Blank (C000223-BLK1)										
Total Dissolved Solids (TDS)	ND	10.0	mg/L							
Duplicate (C000223-DUP1)		**Source: C6A1914-01**								
Total Dissolved Solids (TDS)	359	10.0	mg/L		353			2	10	

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # C6A2021 **Project: Linwood Discharge** **Date:** 01/28/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 01/20/16

Microbiology - Quality Control
GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch C000215 - BIO				**Prepared: 01/02/16 Analyzed: 01/21/16**						
Blank (C000215-BLK1)										
E. Coli	Absent		NA							
Total Coliform	Absent		"							

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # C6A2021 **Project: Linwood Discharge** **Date:** 01/28/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 01/20/16

Notes and Definitions

QM-02	The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.
A	Absent
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
RL	Reporting Limit
NA	Not Applicable

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr
Turlock, CA 95380

Phone: (209) 669 0100
Fax: (209) 593 2212

Lab Report # C6A 2021

Regulatory ☐ Yes ☐ No CC: ☐ Yes ☐ No

Regulator:

Phone: (209) 669-7919

Fax: (209) 250-1919

Original To: frontdesk@randjavila.com

C.C To:

Client: R & J Avila, Inc.

Address: 8119 Ellington Ave

City Hilmar Zip 95324

CHAIN OF CUSTODY

☐ EDF ☐ EDT

☐ FIELD LOGS

Project ID Linwood Discharge

Sampled By (Print Name) Rui Avila

(Signature) R. Avila

Date	Time	Sample type Grab	Sample type Comp	Matrix	Sample ID	Container Type	Container Size	No. Of Containers	Nitrate as N	TDS	E. Coli (P/A)	Total Coliform (P/A)						Lab Use Only: Lab ID #	Lab Use Only: Preservative
1-20-16	3:40 pm	✓			4406 Linwood House		1L	1	✓	✓								-01	
1-20-16	3:40 pm	✓			4406 Linwood House		100ml	1			✓	✓							

Relinquished by (Signature)	Date	Time	Received by (Signature)	Date	Time
R. Avila	1/20/16	4:22	[illegible]	1-20-16	16:22
Relinquished by (Signature)	Date	Time	Received by (Signature)	Date	Time

Preservative: 1 4°C 2 HCL 3 NaOH 4 $Na_2S_2O_3$ 5 HNO_3 6 H_2SO_4 7 Other _____

Matrix: DW Drinking Water WW Waste Water HWW Hazardous Waste (Water) S Soil/Solid

Bailers _____ 55 Gallon Drums _____

Pump Truck ☐ Time Mileage

Turnaround Time ☐ Standard ☐ Silver Rush ☐ Gold Rush ☐ Platinum Rush ☐ Other

Approved By:

Exhibit 12

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # C6A2012 **Project: Linwood Discharge** **Date:** 01/25/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 01/20/16

CERTIFICATE OF ANALYSIS

Sampler: Rui Avila

Sample ID: 4500 W Linwood

Lab ID	Sample Date / Time	RL	Method	Analyte	Result	Units	Notes	Started
C6A2012-01	1/20/2016 12:15	0.40	300.0	Nitrate as N	**2.02**	mg/L		01/20/16 14:57
		10.0	SM 2540 C	Total Dissolved Solids (TDS)	**290**	mg/L		01/21/16 10:35
		NA	SM9223 (Colitag)	E. Coli	Absent	NA		01/20/16 16:35
		NA		Total Coliform	Absent	NA		"

Kanti Gandhi
Chemist

Donna Keller
Laboratory Director

Certification # 2585

Exhibit 12

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # C6A2012 **Project: Linwood Discharge** **Date:** 01/25/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 01/20/16

Inorganic Chemistry - Quality Control

GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch C000194 - NO PREP				**Prepared: 01/19/16 Analyzed: 01/22/16**						
Blank (C000194-BLK1)										
Nitrate as N	ND	0.40	mg/L							
LCS (C000194-BS1)										
Nitrate as N	2.02	0.40	mg/L	2.258		89	85-115			
LCS Dup (C000194-BSD1)										
Nitrate as N	2.00	0.40	mg/L	2.258		88	85-115	0.9	20	
Matrix Spike (C000194-MS1)		**Source: C6A1905-02**								
Nitrate as N	16.7	0.40	mg/L	2.258	14.6	93	85-115			
Matrix Spike Dup (C000194-MSD1)		**Source: C6A1905-02**								
Nitrate as N	16.7	0.40	mg/L	2.258	14.6	93	85-115	0.03	20	
Batch C000223 - NO PREP				**Prepared: 01/21/16 Analyzed: 01/22/16**						
Blank (C000223-BLK1)										
Total Dissolved Solids (TDS)	ND	10.0	mg/L							
Duplicate (C000223-DUP1)		**Source: C6A1914-01**								
Total Dissolved Solids (TDS)	359	10.0	mg/L		353			2	10	

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # C6A2012 **Project: Linwood Discharge** **Date:** 01/25/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 01/20/16

Microbiology - Quality Control

GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch C000213 - BIO			**Prepared: 01/20/16 Analyzed: 01/21/16**							
Blank (C000213-BLK1)										
E. Coli	Absent		NA							
Total Coliform	Absent		"							
Duplicate (C000213-DUP1)		**Source: C6A2016-04**								
E. Coli	Absent		NA		0.0				0	
Total Coliform	Absent		"		0.0				0	

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # C6A2012 **Project: Linwood Discharge** **Date:** 01/25/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 01/20/16

Notes and Definitions

A	Absent
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
RL	Reporting Limit
NA	Not Applicable

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr
Turlock, CA 95380

Phone: (209) 669 0100
Fax: (209) 593 2212

Lab Report # CLA2012
Regulatory ☐Yes ☐No CC: ☐Yes ☐No
Regulator:
Phone: (209) 669-7919
Fax: (209) 250-1919
Original To: frontdesk@randjavila.com
C.C To:

Client: R & J Avila, Inc.
Address: 8119 Ellington Ave
City Hilmar Zip 95324

CHAIN OF CUSTODY

☐EDF ☐EDT
☐ FIELD LOGS

Project ID Linwood Discharge

Sampled By (Print Name) Rui Avila
(Signature) R. Avila

Date	Time	Sample type Grab	Sample type Comp	Matrix	Sample ID	Container Type	Container Size	No. Of Containers	Nitrate as N	TDS	E. Coli (P/A)	Total Coliform (P/A)						Lab Use Only Lab ID #	Lab Use Only Preservative
1-20-16	12:15pm	✓		[redacted]	4500 W. Linwood	[redacted]	1L	1	✓	✓								-01	
1-20-16	12:15pm	✓		[redacted]	4500 W. Linwood	[redacted]	100ml	1			✓	✓							

Relinquished by (Signature)	Date	Time	Received by (Signature)	Date	Time
R. Avila	1/20/16	1:58	[signature]	1-20-16	13:58
Relinquished by (Signature)	Date	Time	Received by (Signature)	Date	Time

Preservative: 1 4°C 2 HCL 3 NaOH 4 $Na_2S_2O_3$ 5 HNO_3 6 H_2SO_4 7 Other _____

Matrix: DW Drinking Water WW Waste Water HWW Hazardous Waste (Water) S Soil/Solid

Bailers _____ 55 Gallon Drums _____

Pump Truck ☐ Time Mileage

Approved By: _____

Turnaround Time ☐Standard ☐Silver Rush ☐Gold Rush ☐Platinum Rush ☐Other

Exhibit 12

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # C6A2014 **Project: Linwood Discharge** **Date:** 01/25/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 01/20/16

CERTIFICATE OF ANALYSIS

Sampler: Rui Avila

Sample ID: 4530 W Linwood

Lab ID	Sample Date / Time	RL	Method	Analyte	Result	Units	Notes	Started
C6A2014-01	1/20/2016 09:40	0.40	300.0	Nitrate as N	**18.0**	mg/L		01/20/16 14:57
		10.0	SM 2540 C	Total Dissolved Solids (TDS)	**726**	mg/L		01/21/16 10:35
		NA	SM9223 (Colitag)	E. Coli	Absent	NA		01/20/16 16:35
		NA		Total Coliform	Absent	NA		"

Kanti Gandhi
Chemist

Donna Keller
Laboratory Director

Certification # 2585

Exhibit 12

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # C6A2014 **Project: Linwood Discharge** **Date:** 01/25/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 01/20/16

Inorganic Chemistry - Quality Control

GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch C000194 - NO PREP				**Prepared: 01/19/16 Analyzed: 01/22/16**						
Blank (C000194-BLK1)										
Nitrate as N	ND	0.40	mg/L							
LCS (C000194-BS1)										
Nitrate as N	2.02	0.40	mg/L	2.258		89	85-115			
LCS Dup (C000194-BSD1)										
Nitrate as N	2.00	0.40	mg/L	2.258		88	85-115	0.9	20	
Matrix Spike (C000194-MS1)		**Source: C6A1905-02**								
Nitrate as N	16.7	0.40	mg/L	2.258	14.6	93	85-115			
Matrix Spike Dup (C000194-MSD1)		**Source: C6A1905-02**								
Nitrate as N	16.7	0.40	mg/L	2.258	14.6	93	85-115	0.03	20	
Batch C000223 - NO PREP				**Prepared: 01/21/16 Analyzed: 01/22/16**						
Blank (C000223-BLK1)										
Total Dissolved Solids (TDS)	ND	10.0	mg/L							
Duplicate (C000223-DUP1)		**Source: C6A1914-01**								
Total Dissolved Solids (TDS)	359	10.0	mg/L		353			2	10	

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # C6A2014 **Project: Linwood Discharge** **Date:** 01/25/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 01/20/16

Microbiology - Quality Control
GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch C000213 - BIO				**Prepared: 01/20/16 Analyzed: 01/21/16**						
Blank (C000213-BLK1)										
E. Coli	Absent		NA							
Total Coliform	Absent		"							
Duplicate (C000213-DUP1)		**Source: C6A2016-04**								
E. Coli	Absent		NA		0.0				0	
Total Coliform	Absent		"		0.0				0	

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # C6A2014 **Project: Linwood Discharge** **Date:** 01/25/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 01/20/16

Notes and Definitions

A	Absent
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
RL	Reporting Limit
NA	Not Applicable

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr
Turlock, CA 95380

Phone: (209) 669 0100
Fax: (209) 593 2212

Lab Report # C6A2014
Regulatory ☐ Yes ☐ No CC: ☐ Yes ☐ No
Regulator:
Phone: (209) 669-7919
Fax: (209) 250-1919
Original To: frontdesk@randjavila.com
C.C To:

Client: R & J Avila, Inc.
Address: 8119 Ellington Ave
City Hilmar Zip 95324

CHAIN OF CUSTODY

☐ EDF ☐ EDT
☐ FIELD LOGS

Project ID Linwood Discharge

Sampled By (Print Name) Rui Avila
(Signature) R. Avila

Date	Time	Sample type Grab	Sample type Comp	Matrix	Sample ID	Container Type	Container Size	No. Of Containers	Nitrate as N	TDS	E. Coli (P/A)	Total Coliform (P/A)						Lab Use Only: Lab ID #	Lab Use Only: Preservative
1-20-16	9:40 am	✓		[redacted]	4530 W. Linwood	[redacted]	1L	1	✓	✓							✓	-01	
1-20-16	9:40 Am	✓		[redacted]	4530 W. Linwood	[redacted]	100ml	1			✓	✓					✓		

Relinquished by (Signature)	Date	Time	Received by (Signature)	Date	Time
R. Avila	1/20/16	1:58	[signature]	1-20-16	13:58
Relinquished by (Signature)	Date	Time	Received by (Signature)	Date	Time

Preservative: 1 4°C 2 HCL 3 NaOH 4 $Na_2S_2O_3$ 5 HNO_3 6 H_2SO_4 7 Other

Matrix: DW Drinking Water WW Waste Water HWW Hazardous Waste (Water) S Soil/Solid

Bailers _____ 55 Gallon Drums _____

Pump Truck ☐ Time Mileage

Approved By:

Turnaround Time ☐ Standard ☐ Silver Rush ☐ Gold Rush ☐ Platinum Rush ☐ Other

Exhibit 12

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # C6A2015 **Project: Linwood Discharge** **Date:** 01/25/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 01/20/16

CERTIFICATE OF ANALYSIS

Sampler: Rui Avila

Sample ID: 4600 W Linwood

Lab ID	Sample Date / Time	RL	Method	Analyte	Result	Units	Notes	Started
C6A2015-01	1/20/2016 10:30	0.40	300.0	Nitrate as N	**11.5**	mg/L		01/20/16 14:57
		10.0	SM 2540 C	Total Dissolved Solids (TDS)	**642**	mg/L		01/21/16 10:35
		NA	SM9223 (Colitag)	E. Coli	Absent	NA		01/20/16 16:35
		NA		Total Coliform	Absent	NA		"

Kanti Gandhi
Chemist

Donna Keller
Laboratory Director

Certification # 2585

Exhibit 12

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # C6A2015 **Project: Linwood Discharge** **Date:** 01/25/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 01/20/16

Inorganic Chemistry - Quality Control
GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch C000194 - NO PREP				**Prepared: 01/19/16 Analyzed: 01/22/16**						
Blank (C000194-BLK1)										
Nitrate as N	ND	0.40	mg/L							
LCS (C000194-BS1)										
Nitrate as N	2.02	0.40	mg/L	2.258		89	85-115			
LCS Dup (C000194-BSD1)										
Nitrate as N	2.00	0.40	mg/L	2.258		88	85-115	0.9	20	
Matrix Spike (C000194-MS1)		**Source: C6A1905-02**								
Nitrate as N	16.7	0.40	mg/L	2.258	14.6	93	85-115			
Matrix Spike Dup (C000194-MSD1)		**Source: C6A1905-02**								
Nitrate as N	16.7	0.40	mg/L	2.258	14.6	93	85-115	0.03	20	
Batch C000223 - NO PREP				**Prepared: 01/21/16 Analyzed: 01/22/16**						
Blank (C000223-BLK1)										
Total Dissolved Solids (TDS)	ND	10.0	mg/L							
Duplicate (C000223-DUP1)		**Source: C6A1914-01**								
Total Dissolved Solids (TDS)	359	10.0	mg/L		353			2	10	

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # C6A2015 **Project: Linwood Discharge** **Date:** 01/25/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 01/20/16

Microbiology - Quality Control
GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch C000213 - BIO			**Prepared: 01/20/16 Analyzed: 01/21/16**							
Blank (C000213-BLK1)										
E. Coli	Absent		NA							
Total Coliform	Absent		"							
Duplicate (C000213-DUP1)		**Source: C6A2016-04**								
E. Coli	Absent		NA		0.0				0	
Total Coliform	Absent		"		0.0				0	

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # C6A2015 **Project: Linwood Discharge** **Date:** 01/25/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 01/20/16

Notes and Definitions

A	Absent
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
RL	Reporting Limit
NA	Not Applicable

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr
Turlock, CA 95380

Phone: (209) 669 0100
Fax: (209) 593 2212

Lab Report # C6A2015
Regulatory ☐ Yes ☐ No CC: ☐ Yes ☐ No
Regulator:
Phone: (209) 669-7919
Fax: (209) 250-1919
Original To: frontdesk@randjavila.com
C.C To:

Client: R & J Avila, Inc.
Address: 8119 Ellington Ave
City Hilmar Zip 95324

CHAIN OF CUSTODY

☐ EDF ☐ EDT
☐ FIELD LOGS

Project ID Linwood Discharge

Sampled By (Print Name) Rui Avila
(Signature) R. Avila

Date	Time	Sample type Grab	Sample type Comp	Matrix	Sample ID	Container Type	Container Size	No. Of Containers	Nitrate as N	TDS	E. Coli (P/A)	Total Coliform (P/A)						Lab Use Only: Lab ID #	Lab Use Only: Preservative
1-20-16	10:30 am	✓			4600 W. Linwood		1L	1	✓	✓								-01	
1-20-16	10:30 am	✓			4600 W. Linwood		100ml	1			✓	✓							

Relinquished by (Signature)	Date	Time	Received by (Signature)	Date	Time
R. Avila	1/20/16	1:58	[illegible]	1-20-16	13:58
Relinquished by (Signature)	Date	Time	Received by (Signature)	Date	Time

Preservative: 1 4°C 2 HCL 3 NaOH 4 $Na_2S_2O_3$ 5 HNO_3 6 H_2SO_4 7 Other

Matrix: DW Drinking Water WW Waste Water HWW Hazardous Waste (Water) S Soil/Solid

Bailers 55 Gallon Drums

Pump Truck ☐ Time Mileage

Approved By:

Turnaround Time ☐ Standard ☐ Silver Rush ☐ Gold Rush ☐ Platinum Rush ☐ Other

Exhibit 12

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # C6B1827 **Project: Linwood Discharge** **Date:** 03/01/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 02/18/16

CERTIFICATE OF ANALYSIS

Sampler: Rui Avila

Sample ID: 1600 S. Washington

Lab ID	Sample Date / Time	RL	Method	Analyte	Result	Units	Notes	Started
C6B1827-01	2/18/2016 11:40	1.0	200.7	Calcium	**35**	mg/L		02/25/16 08:59
		1.0		Magnesium	**7.6**	mg/L		"
		1.0		Sodium	**43.1**	mg/L		"
		1.0	300.0	Chloride	**37.6**	mg/L		02/18/16 12:25
		0.40		Nitrate as N	**3.22**	mg/L		"
		0.5		Sulfate as SO4	**25.8**	mg/L		"
		10.0	SM 2540 C	Total Dissolved Solids (TDS)	**309**	mg/L		02/22/16 08 08
		20.0	SM2320B	Bicarbonate Alkalinity as CaCO3	**151**	mg/L		02/23/16 08 07
		24.4		Bicarbonate as HCO3	**184**	mg/L		"
		20.0		Carbonate Alkalinity as CaCO3	ND	mg/L		"
		12.0		Carbonate as CO3	ND	mg/L		"
		20.0		Hydroxide Alkalinity as CaCO3	ND	mg/L		"
		6.8		Hydroxide as OH	ND	mg/L		"
		20.0		Total Alkalinity as CaCO3	**151**	mg/L		"
		NA	SM9223 (Colitag)	E. Coli	Absent	NA		02/18/16 13:00
		NA		Total Coliform	Absent	NA		"

Kanti Gandhi
Chemist

Donna Keller
Laboratory Director

Certification # 2585

Exhibit 12

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # C6B1827 **Project: Linwood Discharge** **Date:** 03/01/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 02/18/16

Inorganic Chemistry - Quality Control
GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch C000479 - NO PREP				**Prepared: 02/16/16 Analyzed: 02/19/16**						
Blank (C000479-BLK1)										
Chloride	ND	1.0	mg/L							
Nitrate as N	ND	0.40	"							
Sulfate as SO4	ND	0.5	"							
LCS (C000479-BS1)										
Chloride	8.5	1.0	mg/L	10.00		85	80-120			
Nitrate as N	8.50	0.40	"	10.00		85	85-115			
Sulfate as SO4	8.9	0.5	"	10.00		89	80-120			
LCS Dup (C000479-BSD1)										
Chloride	8.5	1.0	mg/L	10.00		85	80-120	0.4	20	
Nitrate as N	8.50	0.40	"	10.00		85	85-115	0.04	20	
Sulfate as SO4	9.0	0.5	"	10.00		90	80-120	0.7	20	
Matrix Spike (C000479-MS1)		**Source: C6B1503-01**								
Chloride	21.6	1.0	mg/L	10.00	14.3	72	80-120			QM-07
Nitrate as N	17.9	0.40	"	10.00	10.1	78	85-115			QM-07
Sulfate as SO4	47.1	0.5	"	10.00	46.2	9	80-120			QM-07
Matrix Spike Dup (C000479-MSD1)		**Source: C6B1503-01**								
Chloride	21.5	1.0	mg/L	10.00	14.3	72	80-120	0.6	20	QM-07
Nitrate as N	17.8	0.40	"	10.00	10.1	77	85-115	0.3	20	QM-07
Sulfate as SO4	47.1	0.5	"	10.00	46.2	9	80-120	0.08	20	QM-07
Batch C000516 - NO PREP				**Prepared: 02/22/16 Analyzed: 02/23/16**						
Blank (C000516-BLK1)										
Total Dissolved Solids (TDS)	ND	10.0	mg/L							
Duplicate (C000516-DUP1)		**Source: C6B1835-01**								
Total Dissolved Solids (TDS)	797	10.0	mg/L		797			0	10	

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # C6B1827 **Project: Linwood Discharge** **Date:** 03/01/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 02/18/16

Inorganic Chemistry - Quality Control
GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch C000539 - NO PREP				**Prepared: 02/23/16 Analyzed: 02/25/16**						
Blank (C000539-BLK1)										
Bicarbonate Alkalinity as CaCO3	ND	20.0	mg/L							
Carbonate Alkalinity as CaCO3	ND	20.0	"							
Hydroxide Alkalinity as CaCO3	ND	20.0	"							
Total Alkalinity as CaCO3	ND	20.0	"							
LCS (C000539-BS1)										
Total Alkalinity as CaCO3	39.0	20.0	mg/L	40.00		98	80-120			
LCS Dup (C000539-BSD1)										
Total Alkalinity as CaCO3	38.9	20.0	mg/L	40.00		97	80-120	0.4	10	
Matrix Spike (C000539-MS1)		**Source: C6B1825-01**								
Total Alkalinity as CaCO3	388	20.0	mg/L	40.00	353	88	80-120			
Matrix Spike Dup (C000539-MSD1)		**Source: C6B1825-01**								
Total Alkalinity as CaCO3	388	20.0	mg/L	40.00	353	86	80-120	0.2	20	
Batch C000551 - NONE				**Prepared & Analyzed: 02/25/16**						
Blank (C000551-BLK1)										
Calcium	ND	1.0	mg/L							
Magnesium	ND	1.0	"							
Sodium	ND	1.0	"							
LCS (C000551-BS1)										
Calcium	26.2	1.0	mg/L	25.00		105	80-120			
Magnesium	26.6	1.0	"	25.00		106	80-120			
Sodium	10.7	1.0	"	10.00		107	80-120			
LCS Dup (C000551-BSD1)										
Calcium	26.2	1.0	mg/L	25.00		105	80-120	0	20	
Magnesium	26.7	1.0	"	25.00		107	80-120	0.4	20	
Sodium	10.7	1.0	"	10.00		107	80-120	0	20	

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # C6B1827 **Project: Linwood Discharge** **Date:** 03/01/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 02/18/16

Inorganic Chemistry - Quality Control

GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch C000551 - NONE				**Prepared & Analyzed: 02/25/16**						
Matrix Spike (C000551-MS1)		**Source: C6B1825-01**								
Calcium	164	1.0	mg/L	25.00	137	108	80-120			
Magnesium	68.0	1.0	"	25.00	40.0	112	80-120			
Sodium	95.4	1.0	"	10.00	84.0	114	80-120			
Matrix Spike Dup (C000551-MSD1)		**Source: C6B1825-01**								
Calcium	165	1.0	mg/L	25.00	137	112	80-120	0.6	20	
Magnesium	67.8	1.0	"	25.00	40.0	111	80-120	0.3	20	
Sodium	94.0	1.0	"	10.00	84.0	100	80-120	1	20	

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # C6B1827 **Project: Linwood Discharge** **Date:** 03/01/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 02/18/16

Microbiology - Quality Control
GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch C000510 - BIO				**Prepared: 02/18/16 Analyzed: 02/19/16**						
Blank (C000510-BLK1)										
E. Coli	Absent		NA							
Total Coliform	Absent		"							
Duplicate (C000510-DUP1)		**Source: C6B1839-01**								
E. Coli	Absent		NA		0.0				0	
Total Coliform	Absent		"		0.0				0	

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # C6B1827 **Project: Linwood Discharge** **Date:** 03/01/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 02/18/16

Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
A	Absent
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
RL	Reporting Limit
NA	Not Applicable

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr
Turlock, CA 95380

Phone: (209) 669 0100
Fax: (209) 593 2212

Lab Report # M6B1827

Regulatory ☐ Yes ☐ No CC: ☐ Yes ☐ No

Regulator:

Phone: (209) 669-7919

Fax: (209) 250-1919

Original To: frontdesk@randjavila.com

C.C To:

Client: R & J Avila, Inc.

Address: 8119 Ellington Ave

City Hilmar Zip 95324

CHAIN OF CUSTODY

☐ EDF ☐ EDT

☐ FIELD LOGS

Project ID Linwood Discharge

Sampled By (Print Name) Rui Avila

(Signature) R. Avila

Date	Time	Sample type Grab	Sample type Comp	Matrix	Sample ID	Container Type	Container Size	No. Of Containers	Nitrate as N	TDS	E. Coli (P/A)	Total Coliform (P/A)	Ca, Mg, Na,	Bicarbonate	Carbonate	Sulfate	Chloride	Lab Use Only: Lab ID #	Lab Use Only: Preservative
2-18-16	11:40 Am	✓	DW		1600 S. Washington		1L	1	✓	✓			✓	✓	✓	✓	✓	-01	
2-18-16	11:40 Am	✓	L		1600 S. Washington		100ml	1			✓	✓							

Relinquished by (Signature)	Date	Time	Received by (Signature)	Date	Time
R. Avila	2-18-16	12:15 Pm	[signature]	2-18-16	12:15
Relinquished by (Signature)	Date	Time	Received by (Signature)	Date	Time

Preservative: 1 4°C 2 HCL 3 NaOH 4 $Na_2S_2O_3$ 5 HNO_3 6 H_2SO_4 7 Other _____

Matrix: DW Drinking Water WW Waste Water HWW Hazardous Waste (Water) S Soil/Solid

Bailers _____ 55 Gallon Drums _____

Pump Truck ☐ Time Mileage

Turnaround Time ☐ Standard ☐ Silver Rush ☐ Gold Rush ☐ Platinum Rush ☐ Other

Approved By:

Exhibit 12

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # C6B1825 **Project: Linwood Discharge** **Date:** 03/01/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 02/18/16

CERTIFICATE OF ANALYSIS

Sampler: Rui Avila

Sample ID: 1624 S. Washington

Lab ID	Sample Date / Time	RL	Method	Analyte	Result	Units	Notes	Started
C6B1825-01	2/18/2016 12:00	1.0	200.7	Calcium	**140**	mg/L		02/25/16 08:59
		1.0		Magnesium	**40.0**	mg/L		"
		1.0		Sodium	**84.0**	mg/L		"
		5.0	300.0	Chloride	**111**	mg/L		02/18/16 12:25
		0.40		Nitrate as N	**22.9**	mg/L		"
		0.5		Sulfate as SO4	**51.2**	mg/L		"
		10.0	SM 2540 C	Total Dissolved Solids (TDS)	**183**	mg/L		02/22/16 08:08
		20.0	SM2320B	Bicarbonate Alkalinity as CaCO3	**353**	mg/L		02/23/16 08:07
		24.4		Bicarbonate as HCO3	**431**	mg/L		"
		20.0		Carbonate Alkalinity as CaCO3	ND	mg/L		"
		12.0		Carbonate as CO3	ND	mg/L		"
		20.0		Hydroxide Alkalinity as CaCO3	ND	mg/L		"
		6.8		Hydroxide as OH	ND	mg/L		"
		20.0		Total Alkalinity as CaCO3	**353**	mg/L		"
		NA	SM9223 (Colitag)	E. Coli	Absent	NA		02/18/16 12:50
		NA		Total Coliform	Present	NA		"

Kanti Gandhi
Chemist

Donna Keller
Laboratory Director

Certification # 2585

Exhibit 12

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # C6B1825 **Project: Linwood Discharge** **Date:** 03/01/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 02/18/16

Inorganic Chemistry - Quality Control
GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch C000479 - NO PREP			**Prepared: 02/16/16 Analyzed: 02/19/16**							
Blank (C000479-BLK1)										
Chloride	ND	1.0	mg/L							
Nitrate as N	ND	0.40	"							
Sulfate as SO4	ND	0.5	"							
LCS (C000479-BS1)										
Chloride	8.5	1.0	mg/L	10.00		85	80-120			
Nitrate as N	8.50	0.40	"	10.00		85	85-115			
Sulfate as SO4	8.9	0.5	"	10.00		89	80-120			
LCS Dup (C000479-BSD1)										
Chloride	8.5	1.0	mg/L	10.00		85	80-120	0.4	20	
Nitrate as N	8.50	0.40	"	10.00		85	85-115	0.04	20	
Sulfate as SO4	9.0	0.5	"	10.00		90	80-120	0.7	20	
Matrix Spike (C000479-MS1)		**Source: C6B1503-01**								
Chloride	21.6	1.0	mg/L	10.00	14.3	72	80-120			QM-07
Nitrate as N	17.9	0.40	"	10.00	10.1	78	85-115			QM-07
Sulfate as SO4	47.1	0.5	"	10.00	46.2	9	80-120			QM-07
Matrix Spike Dup (C000479-MSD1)		**Source: C6B1503-01**								
Chloride	21.5	1.0	mg/L	10.00	14.3	72	80-120	0.6	20	QM-07
Nitrate as N	17.8	0.40	"	10.00	10.1	77	85-115	0.3	20	QM-07
Sulfate as SO4	47.1	0.5	"	10.00	46.2	9	80-120	0.08	20	QM-07
Batch C000516 - NO PREP			**Prepared: 02/22/16 Analyzed: 02/23/16**							
Blank (C000516-BLK1)										
Total Dissolved Solids (TDS)	ND	10.0	mg/L							
Duplicate (C000516-DUP1)		**Source: C6B1835-01**								
Total Dissolved Solids (TDS)	797	10.0	mg/L		797			0	10	

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212

email: info@geoanalyticallab.com

Report # C6B1825 **Project: Linwood Discharge** **Date:** 03/01/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 02/18/16

Inorganic Chemistry - Quality Control

GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch C000539 - NO PREP				**Prepared: 02/23/16 Analyzed: 02/25/16**						
Blank (C000539-BLK1)										
Bicarbonate Alkalinity as CaCO3	ND	20.0	mg/L							
Carbonate Alkalinity as CaCO3	ND	20.0	"							
Hydroxide Alkalinity as CaCO3	ND	20.0	"							
Total Alkalinity as CaCO3	ND	20.0	"							
LCS (C000539-BS1)										
Total Alkalinity as CaCO3	39.0	20.0	mg/L	40.00		98	80-120			
LCS Dup (C000539-BSD1)										
Total Alkalinity as CaCO3	38.9	20.0	mg/L	40.00		97	80-120	0.4	10	
Matrix Spike (C000539-MS1)		**Source: C6B1825-01**								
Total Alkalinity as CaCO3	388	20.0	mg/L	40.00	353	88	80-120			
Matrix Spike Dup (C000539-MSD1)		**Source: C6B1825-01**								
Total Alkalinity as CaCO3	388	20.0	mg/L	40.00	353	86	80-120	0.2	20	
Batch C000551 - NONE				**Prepared & Analyzed: 02/25/16**						
Blank (C000551-BLK1)										
Calcium	ND	1.0	mg/L							
Magnesium	ND	1.0	"							
Sodium	ND	1.0	"							
LCS (C000551-BS1)										
Calcium	26.2	1.0	mg/L	25.00		105	80-120			
Magnesium	26.6	1.0	"	25.00		106	80-120			
Sodium	10.7	1.0	"	10.00		107	80-120			
LCS Dup (C000551-BSD1)										
Calcium	26.2	1.0	mg/L	25.00		105	80-120	0	20	
Magnesium	26.7	1.0	"	25.00		107	80-120	0.4	20	
Sodium	10.7	1.0	"	10.00		107	80-120	0	20	

GeoAnalytical Laboratories, Inc.

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Report # C6B1825 **Project: Linwood Discharge** **Date:** 03/01/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 02/18/16

Inorganic Chemistry - Quality Control

GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch C000551 - NONE				**Prepared & Analyzed: 02/25/16**						
Matrix Spike (C000551-MS1)		**Source: C6B1825-01**								
Calcium	164	1.0	mg/L	25.00	137	108	80-120			
Magnesium	68.0	1.0	"	25.00	40.0	112	80-120			
Sodium	95.4	1.0	"	10.00	84.0	114	80-120			
Matrix Spike Dup (C000551-MSD1)		**Source: C6B1825-01**								
Calcium	165	1.0	mg/L	25.00	137	112	80-120	0.6	20	
Magnesium	67.8	1.0	"	25.00	40.0	111	80-120	0.3	20	
Sodium	94.0	1.0	"	10.00	84.0	100	80-120	1	20	

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # C6B1825 **Project: Linwood Discharge** **Date:** 03/01/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 02/18/16

Microbiology - Quality Control
GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch C000510 - BIO			**Prepared: 02/18/16 Analyzed: 02/19/16**							
Blank (C000510-BLK1)										
E. Coli	Absent		NA							
Total Coliform	Absent		"							
Duplicate (C000510-DUP1)		**Source: C6B1839-01**								
E. Coli	Absent		NA		0.0				0	
Total Coliform	Absent		"		0.0				0	

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212

email: info@geoanalyticallab.com

Report # C6B1825 **Project: Linwood Discharge** **Date:** 03/01/16

R & J Avila **Date Rec'd:** 02/18/16
8119 Ellington Avenue
Hilmar, CA 95324

Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
P	Present
A	Absent
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
RL	Reporting Limit
NA	Not Applicable

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr
Turlock, CA 95380

Phone: (209) 669 0100
Fax: (209) 593 2212

Lab Report # [illegible]

Regulatory ☐ Yes ☐ No CC: ☐ Yes ☐ No

Regulator:

Phone: (209) 669-7919

Fax: (209) 250-1919

Original To: frontdesk@randjavila.com

C.C To:

Client: R & J Avila, Inc.

Address: 8119 Ellington Ave

City Hilmar Zip 95324

CHAIN OF CUSTODY

☐ EDF ☐ EDT

☐ FIELD LOGS

Project ID Linwood Discharge

Sampled By (Print Name) Rui Avila

(Signature) R = Avila

Date	Time	Sample type Grab	Sample type Comp	Matrix	Sample ID	Container Type	Container Size	No. Of Containers	Nitrate as N	TDS	E. Coli (P/A)	Total Coliform (P/A)	Ca, Mg, Na,	Bicarbonate	Carbonate	Sulfate	Chloride	Lab Use Only: Lab ID #	Lab Use Only: Preservative
2-18-16	12:00 pm	✓	DW		1624 S. Washington		1L	1	✓	✓			✓	✓	✓	✓	✓	-01	
2-18-16	12:00 pm	✓	⊥		1624 S. Washington		100ml	1			✓	✓							

Relinquished by (Signature)	Date	Time	Received by (Signature)	Date	Time
R = Avila	2-18-16	12:15	[signature]	2-18-16	12:15
Relinquished by (Signature)	Date	Time	Received by (Signature)	Date	Time

Preservative: 1 4°C 2 HCL 3 -NaOH 4 $Na_2S_2O_3$ 5 -HNO_3 6 -H_2SO_4 7 -Other _____

Matrix: DW Drinking Water WW Waste Water HWW Hazardous Waste (Water) S Soil/Solid

Bailers _____ 55 Gallon Drums _____

Pump Truck ☐ | Time | Mileage

Turnaround Time ☐ Standard ☐ Silver Rush ☐ Gold Rush ☐ Platinum Rush ☐ Other

Approved By:

Exhibit 12

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # C6B1835 **Project: Linwood Discharge** **Date:** 03/01/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 02/18/16

CERTIFICATE OF ANALYSIS

Sampler: Rui Avila

Sample ID: 4030 Linwood House

Lab ID	Sample Date / Time	RL	Method	Analyte	Result	Units	Notes	Started
C6B1835-01	2/18/2016 09:55	1.0	200.7	Calcium	**110**	mg/L		02/25/16 09:03
		1.0		Magnesium	**33.6**	mg/L		"
		1.0		Sodium	**97.0**	mg/L		"
		5.0	300.0	Chloride	**47.8**	mg/L		02/18/16 12:25
		0.40		Nitrate as N	**28.1**	mg/L		"
		2.5		Sulfate as SO4	**69.5**	mg/L		"
		10.0	SM 2540 C	Total Dissolved Solids (TDS)	**797**	mg/L		02/22/16 08:08
		20.0	SM2320B	Bicarbonate Alkalinity as CaCO3	**388**	mg/L		02/23/16 08:07
		24.4		Bicarbonate as HCO3	**473**	mg/L		"
		20.0		Carbonate Alkalinity as CaCO3	ND	mg/L		"
		12.0		Carbonate as CO3	ND	mg/L		"
		20.0		Hydroxide Alkalinity as CaCO3	ND	mg/L		"
		6.8		Hydroxide as OH	ND	mg/L		"
		20.0		Total Alkalinity as CaCO3	**388**	mg/L		"
		NA	SM9223 (Colitag)	E. Coli	Absent	NA		02/18/16 13:00
		NA		Total Coliform	Absent	NA		"

Kanti Gandhi
Chemist

Donna Keller
Laboratory Director

Certification # 2585

Exhibit 12

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # C6B1835 **Project: Linwood Discharge** **Date:** 03/01/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 02/18/16

Inorganic Chemistry - Quality Control
GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch C000479 - NO PREP				**Prepared: 02/16/16 Analyzed: 02/19/16**						
Blank (C000479-BLK1)										
Chloride	ND	1.0	mg/L							
Nitrate as N	ND	0.40	"							
Sulfate as SO4	ND	0.5	"							
LCS (C000479-BS1)										
Chloride	8.5	1.0	mg/L	10.00		85	80-120			
Nitrate as N	8.50	0.40	"	10.00		85	85-115			
Sulfate as SO4	8.9	0.5	"	10.00		89	80-120			
LCS Dup (C000479-BSD1)										
Chloride	8.5	1.0	mg/L	10.00		85	80-120	0.4	20	
Nitrate as N	8.50	0.40	"	10.00		85	85-115	0.04	20	
Sulfate as SO4	9.0	0.5	"	10.00		90	80-120	0.7	20	
Matrix Spike (C000479-MS1)		**Source: C6B1503-01**								
Chloride	21.6	1.0	mg/L	10.00	14.3	72	80-120			QM-07
Nitrate as N	17.9	0.40	"	10.00	10.1	78	85-115			QM-07
Sulfate as SO4	47.1	0.5	"	10.00	46.2	9	80-120			QM-07
Matrix Spike Dup (C000479-MSD1)		**Source: C6B1503-01**								
Chloride	21.5	1.0	mg/L	10.00	14.3	72	80-120	0.6	20	QM-07
Nitrate as N	17.8	0.40	"	10.00	10.1	77	85-115	0.3	20	QM-07
Sulfate as SO4	47.1	0.5	"	10.00	46.2	9	80-120	0.08	20	QM-07
Batch C000516 - NO PREP				**Prepared: 02/22/16 Analyzed: 02/23/16**						
Blank (C000516-BLK1)										
Total Dissolved Solids (TDS)	ND	10.0	mg/L							
Duplicate (C000516-DUP1)		**Source: C6B1835-01**								
Total Dissolved Solids (TDS)	797	10.0	mg/L		797			0	10	

GeoAnalytical Laboratories, Inc.

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email: info@geoanalyticallab.com

Report # C6B1835 **Project: Linwood Discharge** **Date:** 03/01/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 02/18/16

Inorganic Chemistry - Quality Control
GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch C000539 - NO PREP				**Prepared: 02/23/16 Analyzed: 02/25/16**						
Blank (C000539-BLK1)										
Bicarbonate Alkalinity as CaCO3	ND	20.0	mg/L							
Carbonate Alkalinity as CaCO3	ND	20.0	"							
Hydroxide Alkalinity as CaCO3	ND	20.0	"							
Total Alkalinity as CaCO3	ND	20.0	"							
LCS (C000539-BS1)										
Total Alkalinity as CaCO3	39.0	20.0	mg/L	40.00		98	80-120			
LCS Dup (C000539-BSD1)										
Total Alkalinity as CaCO3	38.9	20.0	mg/L	40.00		97	80-120	0.4	10	
Matrix Spike (C000539-MS1)		**Source: C6B1825-01**								
Total Alkalinity as CaCO3	388	20.0	mg/L	40.00	353	88	80-120			
Matrix Spike Dup (C000539-MSD1)		**Source: C6B1825-01**								
Total Alkalinity as CaCO3	388	20.0	mg/L	40.00	353	86	80-120	0.2	20	
Batch C000552 - NONE				**Prepared & Analyzed: 02/25/16**						
Blank (C000552-BLK1)										
Calcium	ND	1.0	mg/L							
Magnesium	ND	1.0	"							
Sodium	ND	1.0	"							
LCS (C000552-BS1)										
Calcium	26.2	1.0	mg/L	25.00		105	80-120			
Magnesium	26.6	1.0	"	25.00		106	80-120			
Sodium	10.7	1.0	"	10.00		107	80-120			
LCS Dup (C000552-BSD1)										
Calcium	26.2	1.0	mg/L	25.00		105	80-120	0	20	
Magnesium	26.7	1.0	"	25.00		107	80-120	0.4	20	
Sodium	10.7	1.0	"	10.00		107	80-120	0	20	

GeoAnalytical Laboratories, Inc.

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email: info@geoanalyticallab.com

Report # C6B1835 **Project: Linwood Discharge** **Date:** 03/01/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 02/18/16

Inorganic Chemistry - Quality Control

GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch C000552 - NONE				**Prepared & Analyzed: 02/25/16**						
Matrix Spike (C000552-MS1)		**Source: C6B1832-01**								
Calcium	156	1.0	mg/L	25.00	128	112	80-120			
Magnesium	63.7	1.0	"	25.00	36.3	110	80-120			
Sodium	100	1.0	"	10.00	106	NR	80-120			QM-02
Matrix Spike Dup (C000552-MSD1)		**Source: C6B1832-01**								
Calcium	155	1.0	mg/L	25.00	128	108	80-120	0.6	20	
Magnesium	63.3	1.0	"	25.00	36.3	108	80-120	0.6	20	
Sodium	82.1	1.0	"	10.00	106	NR	80-120	20	20	QM-02

GeoAnalytical Laboratories, Inc.

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Report # C6B1835 **Project: Linwood Discharge** **Date:** 03/01/16

Date Rec'd: 02/18/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Microbiology - Quality Control

GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch C000510 - BIO			**Prepared: 02/18/16 Analyzed: 02/19/16**							
Blank (C000510-BLK1)										
E. Coli	Absent		NA							
Total Coliform	Absent		"							
Duplicate (C000510-DUP1)		**Source: C6B1839-01**								
E. Coli	Absent		NA		0.0				0	
Total Coliform	Absent		"		0.0				0	

GeoAnalytical Laboratories, Inc.

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email: info@geoanalyticallab.com

Report # C6B1835 **Project: Linwood Discharge** **Date:** 03/01/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 02/18/16

Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
QM-02	The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.
A	Absent
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
RL	Reporting Limit
NA	Not Applicable

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr
Turlock, CA 95380

Phone: (209) 669 0100
Fax: (209) 593 2212

Lab Report # C6B1835

Regulatory ☐ Yes ☐ No CC: ☐ Yes ☐ No

Regulator:

Phone: (209) 669-7919

Fax: (209) 250-1919

Original To: frontdesk@randjavila.com

C.C To:

Client: R & J Avila, Inc.

Address: 8119 Ellington Ave

City Hilmar Zip 95324

CHAIN OF CUSTODY

☐ EDF ☐ EDT

☐ FIELD LOGS

Project ID Linwood Discharge

Sampled By (Print Name) Rui Avila

(Signature) R. Avila

Date	Time	Sample type Grab	Sample type Comp	Matrix	Sample ID	Container Type	Container Size	No. Of Containers	Nitrate as N	TDS	E. Coli (P/A)	Total Coliform (P/A)	Ca, Mg, Na,	Bicarbonate	Carbonate	Sulfate	Chloride	Lab Use Only: Lab ID #	Lab Use Only: Preservative
2-18-16	9:55 AM	✓	✓		4030 Linwood House		1L	1	✓	✓			✓	✓	✓	✓	✓	-01	
2-18-16	9:55 AM	✓			4030 Linwood House		100ml	1			✓	✓							

Relinquished by (Signature)	Date	Time	Received by (Signature)	Date	Time
R. Avila	2-18-16	12:15 pm	[signature]	2-18-16	12:15
Relinquished by (Signature)	Date	Time	Received by (Signature)	Date	Time

Preservative: 1 4°C 2 HCL 3 NaOH 4 $Na_2S_2O_3$ 5 HNO_3 6 H_2SO_4 7 Other _____

Matrix: DW Drinking Water WW Waste Water HWW Hazardous Waste (Water) S Soil/Solid

Bailers _____ 55 Gallon Drums _____

Pump Truck ☐ Time Mileage

Turnaround Time ☐ Standard ☐ Silver Rush ☐ Gold Rush ☐ Platinum Rush ☐ Other

Approved By:

Exhibit 12

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # C6B1832 **Project: Linwood Discharge** **Date:** 03/01/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 02/18/16

CERTIFICATE OF ANALYSIS

Sampler: Rui Avila

Sample ID: 4200 W Linwood

Lab ID	Sample Date / Time	RL	Method	Analyte	Result	Units	Notes	Started
C6B1832-01	2/18/2016 09:45	1.0	200.7	Calcium	**130**	mg/L		02/25/16 09:03
		1.0		Magnesium	**36.3**	mg/L		"
		1.0		Sodium	**106**	mg/L		"
		5.0	300.0	Chloride	**109**	mg/L		02/18/16 12:25
		0.40		Nitrate as N	**20.6**	mg/L		"
		2.5		Sulfate as SO4	**86.4**	mg/L		"
		10.0	SM 2540 C	Total Dissolved Solids (TDS)	**855**	mg/L		02/22/16 08:08
		20.0	SM2320B	Bicarbonate Alkalinity as CaCO3	**366**	mg/L		02/23/16 08:07
		24.4		Bicarbonate as HCO3	**446**	mg/L		"
		20.0		Carbonate Alkalinity as CaCO3	ND	mg/L		"
		12.0		Carbonate as CO3	ND	mg/L		"
		20.0		Hydroxide Alkalinity as CaCO3	ND	mg/L		"
		6.8		Hydroxide as OH	ND	mg/L		"
		20.0		Total Alkalinity as CaCO3	**366**	mg/L		"
		NA	SM9223 (Colitag)	E. Coli	Absent	NA		02/18/16 13:00
		NA		Total Coliform	Absent	NA		"

Kanti Gandhi
Chemist

Donna Keller
Laboratory Director

Certification # 2585

Exhibit 12

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # C6B1832 **Project: Linwood Discharge** **Date:** 03/01/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 02/18/16

Inorganic Chemistry - Quality Control
GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch C000479 - NO PREP				**Prepared: 02/16/16 Analyzed: 02/19/16**						
Blank (C000479-BLK1)										
Chloride	ND	1.0	mg/L							
Nitrate as N	ND	0.40	"							
Sulfate as SO4	ND	0.5	"							
LCS (C000479-BS1)										
Chloride	8.5	1.0	mg/L	10.00		85	80-120			
Nitrate as N	8.50	0.40	"	10.00		85	85-115			
Sulfate as SO4	8.9	0.5	"	10.00		89	80-120			
LCS Dup (C000479-BSD1)										
Chloride	8.5	1.0	mg/L	10.00		85	80-120	0.4	20	
Nitrate as N	8.50	0.40	"	10.00		85	85-115	0.04	20	
Sulfate as SO4	9.0	0.5	"	10.00		90	80-120	0.7	20	
Matrix Spike (C000479-MS1)		**Source: C6B1503-01**								
Chloride	21.6	1.0	mg/L	10.00	14.3	72	80-120			QM-07
Nitrate as N	17.9	0.40	"	10.00	10.1	78	85-115			QM-07
Sulfate as SO4	47.1	0.5	"	10.00	46.2	9	80-120			QM-07
Matrix Spike Dup (C000479-MSD1)		**Source: C6B1503-01**								
Chloride	21.5	1.0	mg/L	10.00	14.3	72	80-120	0.6	20	QM-07
Nitrate as N	17.8	0.40	"	10.00	10.1	77	85-115	0.3	20	QM-07
Sulfate as SO4	47.1	0.5	"	10.00	46.2	9	80-120	0.08	20	QM-07
Batch C000516 - NO PREP				**Prepared: 02/22/16 Analyzed: 02/23/16**						
Blank (C000516-BLK1)										
Total Dissolved Solids (TDS)	ND	10.0	mg/L							
Duplicate (C000516-DUP1)		**Source: C6B1835-01**								
Total Dissolved Solids (TDS)	797	10.0	mg/L		797			0	10	

GeoAnalytical Laboratories, Inc.

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Report # C6B1832 **Project: Linwood Discharge** **Date:** 03/01/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 02/18/16

Inorganic Chemistry - Quality Control
GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch C000539 - NO PREP				**Prepared: 02/23/16 Analyzed: 02/25/16**						
Blank (C000539-BLK1)										
Bicarbonate Alkalinity as CaCO3	ND	20.0	mg/L							
Carbonate Alkalinity as CaCO3	ND	20.0	"							
Hydroxide Alkalinity as CaCO3	ND	20.0	"							
Total Alkalinity as CaCO3	ND	20.0	"							
LCS (C000539-BS1)										
Total Alkalinity as CaCO3	39.0	20.0	mg/L	40.00		98	80-120			
LCS Dup (C000539-BSD1)										
Total Alkalinity as CaCO3	38.9	20.0	mg/L	40.00		97	80-120	0.4	10	
Matrix Spike (C000539-MS1)		**Source: C6B1825-01**								
Total Alkalinity as CaCO3	388	20.0	mg/L	40.00	353	88	80-120			
Matrix Spike Dup (C000539-MSD1)		**Source: C6B1825-01**								
Total Alkalinity as CaCO3	388	20.0	mg/L	40.00	353	86	80-120	0.2	20	
Batch C000552 - NONE				**Prepared & Analyzed: 02/25/16**						
Blank (C000552-BLK1)										
Calcium	ND	1.0	mg/L							
Magnesium	ND	1.0	"							
Sodium	ND	1.0	"							
LCS (C000552-BS1)										
Calcium	26.2	1.0	mg/L	25.00		105	80-120			
Magnesium	26.6	1.0	"	25.00		106	80-120			
Sodium	10.7	1.0	"	10.00		107	80-120			
LCS Dup (C000552-BSD1)										
Calcium	26.2	1.0	mg/L	25.00		105	80-120	0	20	
Magnesium	26.7	1.0	"	25.00		107	80-120	0.4	20	
Sodium	10.7	1.0	"	10.00		107	80-120	0	20	

GeoAnalytical Laboratories, Inc.

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Report # C6B1832 **Project: Linwood Discharge** **Date:** 03/01/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 02/18/16

Inorganic Chemistry - Quality Control

GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch C000552 - NONE				**Prepared & Analyzed: 02/25/16**						
Matrix Spike (C000552-MS1)		**Source: C6B1832-01**								
Calcium	156	1.0	mg/L	25.00	128	112	80-120			
Magnesium	63.7	1.0	"	25.00	36.3	110	80-120			
Sodium	100	1.0	"	10.00	106	NR	80-120			QM-02
Matrix Spike Dup (C000552-MSD1)		**Source: C6B1832-01**								
Calcium	155	1.0	mg/L	25.00	128	108	80-120	0.6	20	
Magnesium	63.3	1.0	"	25.00	36.3	108	80-120	0.6	20	
Sodium	82.1	1.0	"	10.00	106	NR	80-120	20	20	QM-02

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # C6B1832 **Project: Linwood Discharge** **Date:** 03/01/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 02/18/16

Microbiology - Quality Control
GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch C000510 - BIO				**Prepared: 02/18/16 Analyzed: 02/19/16**						
Blank (C000510-BLK1)										
E. Coli	Absent		NA							
Total Coliform	Absent		"							
Duplicate (C000510-DUP1)		**Source: C6B1839-01**								
E. Coli	Absent		NA		0.0				0	
Total Coliform	Absent		"		0.0				0	

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # C6B1832 **Project: Linwood Discharge** **Date:** 03/01/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 02/18/16

Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
QM-02	The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.
A	Absent
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
RL	Reporting Limit
NA	Not Applicable

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr
Turlock, CA 95380

Phone: (209) 669 0100
Fax: (209) 593 2212

Lab Report # 1'6B1852

Regulatory ☐Yes ☐No CC: ☐Yes ☐No

Regulator:

Phone: (209) 669-7919

Fax: (209) 250-1919

Original To: frontdesk@randjavila.com

C.C To:

Client: R & J Avila, Inc.

Address: 8119 Ellington Ave

City Hilmar Zip 95324

CHAIN OF CUSTODY

☐EDF ☐EDT

☐ FIELD LOGS

Project ID Linwood Discharge

Sampled By (Print Name) Rui Avila

(Signature) R=Avila

Date	Time	Sample type Grab	Sample type Comp	Matrix	Sample ID	Container Type	Container Size	No. Of Containers	Nitrate as N	TDS	E. Coli (P/A)	Total Coliform (P/A)	Ca, Mg, Na,	Bicarbonate	Carbonate	Sulfate	Chloride	Lab Use Only: Lab ID #	Lab Use Only: Preservative
2-18-16	9:45 Am	✓	DW		4200 W. Linwood		1L	1	✓	✓			✓	✓	✓	✓	✓	-01	
2-18-16	9:45 Am	✓	X		4200 W. Linwood		100ml	1			✓	✓							

Relinquished by (Signature)	Date	Time	Received by (Signature)	Date	Time
R=Avila	2-18-16	12:15 PM	[signature]	2-18-16	12:15
Relinquished by (Signature)	Date	Time	Received by (Signature)	Date	Time

Preservative: 1 4°C 2 HCL 3 NaOH 4 $Na_2S_2O_3$ 5 HNO_3 6 H_2SO_4 7 Other _____

Matrix: DW Drinking Water WW Waste Water HWW Hazardous Waste (Water) S Soil/Solid

Bailers _____ 55 Gallon Drums _____

Pump Truck ☐ Time Mileage

Turnaround Time ☐Standard ☐Silver Rush ☐Gold Rush ☐Platinum Rush ☐Other

Approved By:

Exhibit 12

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # C6B1833 **Project:** Linwood Discharge **Date:** 03/01/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 02/18/16

CERTIFICATE OF ANALYSIS

Sampler: Rui Avila

Sample ID: 4207 Linwood

Lab ID	Sample Date / Time	RL	Method	Analyte	Result	Units	Notes	Started
C6B1833-01	2/18/2016 09:18	1.0	200.7	Calcium	**20**	mg/L		02/25/16 09:03
		1.0		Magnesium	**1.3**	mg/L		"
		1.0		Sodium	**31.3**	mg/L		"
		1.0	300.0	Chloride	**36.1**	mg/L		02/18/16 12:25
		0.40		Nitrate as N	**1.38**	mg/L		"
		0.5		Sulfate as SO4	**14.7**	mg/L		"
		10.0	SM 2540 C	Total Dissolved Solids (TDS)	**230**	mg/L		02/22/16 08:08
		20.0	SM2320B	Bicarbonate Alkalinity as CaCO3	**91.0**	mg/L		02/23/16 08:07
		24.4		Bicarbonate as HCO3	**111**	mg/L		"
		20.0		Carbonate Alkalinity as CaCO3	ND	mg/L		"
		12.0		Carbonate as CO3	ND	mg/L		"
		20.0		Hydroxide Alkalinity as CaCO3	ND	mg/L		"
		6.8		Hydroxide as OH	ND	mg/L		"
		20.0		Total Alkalinity as CaCO3	**91.0**	mg/L		"
		NA	SM9223 (Colitag)	E. Coli	Absent	NA		02/18/16 13:00
		NA		Total Coliform	Absent	NA		"

Kanti Gandhi
Chemist

Donna Keller
Laboratory Director

Certification # 2585

Exhibit 12

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # C6B1833 **Project: Linwood Discharge** **Date:** 03/01/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 02/18/16

Inorganic Chemistry - Quality Control
GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch C000479 - NO PREP			**Prepared: 02/16/16 Analyzed: 02/19/16**							
Blank (C000479-BLK1)										
Chloride	ND	1.0	mg/L							
Nitrate as N	ND	0.40	"							
Sulfate as SO4	ND	0.5	"							
LCS (C000479-BS1)										
Chloride	8.5	1.0	mg/L	10.00		85	80-120			
Nitrate as N	8.50	0.40	"	10.00		85	85-115			
Sulfate as SO4	8.9	0.5	"	10.00		89	80-120			
LCS Dup (C000479-BSD1)										
Chloride	8.5	1.0	mg/L	10.00		85	80-120	0.4	20	
Nitrate as N	8.50	0.40	"	10.00		85	85-115	0.04	20	
Sulfate as SO4	9.0	0.5	"	10.00		90	80-120	0.7	20	
Matrix Spike (C000479-MS1)		**Source: C6B1503-01**								
Chloride	21.6	1.0	mg/L	10.00	14.3	72	80-120			QM-07
Nitrate as N	17.9	0.40	"	10.00	10.1	78	85-115			QM-07
Sulfate as SO4	47.1	0.5	"	10.00	46.2	9	80-120			QM-07
Matrix Spike Dup (C000479-MSD1)		**Source: C6B1503-01**								
Chloride	21.5	1.0	mg/L	10.00	14.3	72	80-120	0.6	20	QM-07
Nitrate as N	17.8	0.40	"	10.00	10.1	77	85-115	0.3	20	QM-07
Sulfate as SO4	47.1	0.5	"	10.00	46.2	9	80-120	0.08	20	QM-07
Batch C000516 - NO PREP			**Prepared: 02/22/16 Analyzed: 02/23/16**							
Blank (C000516-BLK1)										
Total Dissolved Solids (TDS)	ND	10.0	mg/L							
Duplicate (C000516-DUP1)		**Source: C6B1835-01**								
Total Dissolved Solids (TDS)	797	10.0	mg/L		797			0	10	

GeoAnalytical Laboratories, Inc.

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Report # C6B1833 **Project: Linwood Discharge** **Date:** 03/01/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 02/18/16

Inorganic Chemistry - Quality Control
GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch C000539 - NO PREP				**Prepared: 02/23/16 Analyzed: 02/25/16**						
Blank (C000539-BLK1)										
Bicarbonate Alkalinity as CaCO3	ND	20.0	mg/L							
Carbonate Alkalinity as CaCO3	ND	20.0	"							
Hydroxide Alkalinity as CaCO3	ND	20.0	"							
Total Alkalinity as CaCO3	ND	20.0	"							
LCS (C000539-BS1)										
Total Alkalinity as CaCO3	39.0	20.0	mg/L	40.00		98	80-120			
LCS Dup (C000539-BSD1)										
Total Alkalinity as CaCO3	38.9	20.0	mg/L	40.00		97	80-120	0.4	10	
Matrix Spike (C000539-MS1)		**Source: C6B1825-01**								
Total Alkalinity as CaCO3	388	20.0	mg/L	40.00	353	88	80-120			
Matrix Spike Dup (C000539-MSD1)		**Source: C6B1825-01**								
Total Alkalinity as CaCO3	388	20.0	mg/L	40.00	353	86	80-120	0.2	20	
Batch C000552 - NONE				**Prepared & Analyzed: 02/25/16**						
Blank (C000552-BLK1)										
Calcium	ND	1.0	mg/L							
Magnesium	ND	1.0	"							
Sodium	ND	1.0	"							
LCS (C000552-BS1)										
Calcium	26.2	1.0	mg/L	25.00		105	80-120			
Magnesium	26.6	1.0	"	25.00		106	80-120			
Sodium	10.7	1.0	"	10.00		107	80-120			
LCS Dup (C000552-BSD1)										
Calcium	26.2	1.0	mg/L	25.00		105	80-120	0	20	
Magnesium	26.7	1.0	"	25.00		107	80-120	0.4	20	
Sodium	10.7	1.0	"	10.00		107	80-120	0	20	

GeoAnalytical Laboratories, Inc.

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Report # C6B1833 **Project: Linwood Discharge** **Date:** 03/01/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 02/18/16

Inorganic Chemistry - Quality Control

GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch C000552 - NONE				**Prepared & Analyzed: 02/25/16**						
Matrix Spike (C000552-MS1)		**Source: C6B1832-01**								
Calcium	156	1.0	mg/L	25.00	128	112	80-120			
Magnesium	63.7	1.0	"	25.00	36.3	110	80-120			
Sodium	100	1.0	"	10.00	106	NR	80-120			QM-02
Matrix Spike Dup (C000552-MSD1)		**Source: C6B1832-01**								
Calcium	155	1.0	mg/L	25.00	128	108	80-120	0.6	20	
Magnesium	63.3	1.0	"	25.00	36.3	108	80-120	0.6	20	
Sodium	82.1	1.0	"	10.00	106	NR	80-120	20	20	QM-02

GeoAnalytical Laboratories, Inc.

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Report # C6B1833 **Project: Linwood Discharge** **Date:** 03/01/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 02/18/16

Microbiology - Quality Control

GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch C000510 - BIO				**Prepared: 02/18/16 Analyzed: 02/19/16**						
Blank (C000510-BLK1)										
E. Coli	Absent		NA							
Total Coliform	Absent		"							
Duplicate (C000510-DUP1)		**Source: C6B1839-01**								
E. Coli	Absent		NA		0.0				0	
Total Coliform	Absent		"		0.0				0	

GeoAnalytical Laboratories, Inc.

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email: info@geoanalyticallab.com

Report # C6B1833 **Project: Linwood Discharge** **Date:** 03/01/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 02/18/16

Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
QM-02	The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.
A	Absent
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
RL	Reporting Limit
NA	Not Applicable

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr
Turlock, CA 95380

Phone: (209) 669 0100
Fax: (209) 593 2212

Lab Report # C6B1833

Regulatory ☐ Yes ☐ No CC: ☐ Yes ☐ No

Regulator:

Phone: (209) 669-7919

Fax: (209) 250-1919

Original To: frontdesk@randjavila.com

C.C To:

Client: R & J Avila, Inc.

Address: 8119 Ellington Ave

City Hilmar Zip 95324

CHAIN OF CUSTODY

☐ EDF ☐ EDT

☐ FIELD LOGS

Project ID Linwood Discharge

Sampled By (Print Name) Rui Avila

(Signature) R. Avila

Date	Time	Sample type Grab	Sample type Comp	Matrix	Sample ID	Container Type	Container Size	No. Of Containers	Nitrate as N	TDS	E. Coli (P/A)	Total Coliform (P/A)	Ca, Mg, Na,	Bicarbonate	Carbonate	Sulfate	Chloride	Lab Use Only: Lab ID #	Lab Use Only: Preservative
2/18/16	9:18 am	✓	W		4207 Linwood		1L	1	✓	✓			✓	✓	✓	✓	✓	-01	
2/18/16	9:18 am	✓	⊥		4207 Linwood		100ml	1			✓	✓							

Relinquished by (Signature)	Date	Time	Received by (Signature)	Date	Time
R. Avila	2-18-16	12:15 pm	[illegible]	2-18-16	12:15
Relinquished by (Signature)	Date	Time	Received by (Signature)	Date	Time

Preservative: 1 4°C 2 HCL 3 NaOH 4 $Na_2S_2O_3$ 5 HNO_3 6 H_2SO_4 7 Other _____

Matrix: DW Drinking Water WW Waste Water HWW Hazardous Waste (Water) S Soil/Solid

Bailers _____ 55 Gallon Drums _____

Pump Truck ☐ Time Mileage

Turnaround Time ☐ Standard ☐ Silver Rush ☐ Gold Rush ☐ Platinum Rush ☐ Other

Approved By:

Exhibit 12

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # C6B1830 **Project: Linwood Discharge** **Date:** 03/01/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 02/18/16

CERTIFICATE OF ANALYSIS

Sampler: Rui Avila

Sample ID: 4230 W Linwood

Lab ID	Sample Date / Time	RL	Method	Analyte	Result	Units	Notes	Started
C6B1830-01	2/18/2016 10:45	1.0	200.7	Calcium	**140**	mg/L		02/25/16 08:59
		1.0		Magnesium	**45.2**	mg/L		"
		1.0		Sodium	**108**	mg/L		"
		5.0	300.0	Chloride	**125**	mg/L		02/18/16 12:25
		0.40		Nitrate as N	**13.6**	mg/L		"
		2.5		Sulfate as SO4	**85.1**	mg/L		"
		10.0	SM 2540 C	Total Dissolved Solids (TDS)	**913**	mg/L		02/22/16 08:08
		20.0	SM2320B	Bicarbonate Alkalinity as CaCO3	**421**	mg/L		02/23/16 08:07
		24.4		Bicarbonate as HCO3	**514**	mg/L		"
		20.0		Carbonate Alkalinity as CaCO3	ND	mg/L		"
		12.0		Carbonate as CO3	ND	mg/L		"
		20.0		Hydroxide Alkalinity as CaCO3	ND	mg/L		"
		6.8		Hydroxide as OH	ND	mg/L		"
		20.0		Total Alkalinity as CaCO3	**421**	mg/L		"
		NA	SM9223 (Colitag)	E. Coli	Absent	NA		02/18/16 13:00
		NA		Total Coliform	Absent	NA		"

Kanti Gandhi
Chemist

Donna Keller
Laboratory Director

Certification # 2585

Exhibit 12

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # C6B1830 **Project: Linwood Discharge** **Date:** 03/01/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 02/18/16

Inorganic Chemistry - Quality Control
GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch C000479 - NO PREP				**Prepared: 02/16/16 Analyzed: 02/19/16**						
Blank (C000479-BLK1)										
Chloride	ND	1.0	mg/L							
Nitrate as N	ND	0.40	"							
Sulfate as SO4	ND	0.5	"							
LCS (C000479-BS1)										
Chloride	8.5	1.0	mg/L	10.00		85	80-120			
Nitrate as N	8.50	0.40	"	10.00		85	85-115			
Sulfate as SO4	8.9	0.5	"	10.00		89	80-120			
LCS Dup (C000479-BSD1)										
Chloride	8.5	1.0	mg/L	10.00		85	80-120	0.4	20	
Nitrate as N	8.50	0.40	"	10.00		85	85-115	0.04	20	
Sulfate as SO4	9.0	0.5	"	10.00		90	80-120	0.7	20	
Matrix Spike (C000479-MS1)		**Source: C6B1503-01**								
Chloride	21.6	1.0	mg/L	10.00	14.3	72	80-120			QM-07
Nitrate as N	17.9	0.40	"	10.00	10.1	78	85-115			QM-07
Sulfate as SO4	47.1	0.5	"	10.00	46.2	9	80-120			QM-07
Matrix Spike Dup (C000479-MSD1)		**Source: C6B1503-01**								
Chloride	21.5	1.0	mg/L	10.00	14.3	72	80-120	0.6	20	QM-07
Nitrate as N	17.8	0.40	"	10.00	10.1	77	85-115	0.3	20	QM-07
Sulfate as SO4	47.1	0.5	"	10.00	46.2	9	80-120	0.08	20	QM-07
Batch C000516 - NO PREP				**Prepared: 02/22/16 Analyzed: 02/23/16**						
Blank (C000516-BLK1)										
Total Dissolved Solids (TDS)	ND	10.0	mg/L							
Duplicate (C000516-DUP1)		**Source: C6B1835-01**								
Total Dissolved Solids (TDS)	797	10.0	mg/L		797			0	10	

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # C6B1830 **Project: Linwood Discharge** **Date:** 03/01/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 02/18/16

Inorganic Chemistry - Quality Control
GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch C000539 - NO PREP				**Prepared: 02/23/16 Analyzed: 02/25/16**						
Blank (C000539-BLK1)										
Bicarbonate Alkalinity as CaCO3	ND	20.0	mg/L							
Carbonate Alkalinity as CaCO3	ND	20.0	"							
Hydroxide Alkalinity as CaCO3	ND	20.0	"							
Total Alkalinity as CaCO3	ND	20.0	"							
LCS (C000539-BS1)										
Total Alkalinity as CaCO3	39.0	20.0	mg/L	40.00		98	80-120			
LCS Dup (C000539-BSD1)										
Total Alkalinity as CaCO3	38.9	20.0	mg/L	40.00		97	80-120	0.4	10	
Matrix Spike (C000539-MS1)		**Source: C6B1825-01**								
Total Alkalinity as CaCO3	388	20.0	mg/L	40.00	353	88	80-120			
Matrix Spike Dup (C000539-MSD1)		**Source: C6B1825-01**								
Total Alkalinity as CaCO3	388	20.0	mg/L	40.00	353	86	80-120	0.2	20	
Batch C000551 - NONE				**Prepared & Analyzed: 02/25/16**						
Blank (C000551-BLK1)										
Calcium	ND	1.0	mg/L							
Magnesium	ND	1.0	"							
Sodium	ND	1.0	"							
LCS (C000551-BS1)										
Calcium	26.2	1.0	mg/L	25.00		105	80-120			
Magnesium	26.6	1.0	"	25.00		106	80-120			
Sodium	10.7	1.0	"	10.00		107	80-120			
LCS Dup (C000551-BSD1)										
Calcium	26.2	1.0	mg/L	25.00		105	80-120	0	20	
Magnesium	26.7	1.0	"	25.00		107	80-120	0.4	20	
Sodium	10.7	1.0	"	10.00		107	80-120	0	20	

GeoAnalytical Laboratories, Inc.

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Report # C6B1830 **Project: Linwood Discharge** **Date:** 03/01/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 02/18/16

Inorganic Chemistry - Quality Control
GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch C000551 - NONE				**Prepared & Analyzed: 02/25/16**						
Matrix Spike (C000551-MS1)		**Source: C6B1825-01**								
Calcium	164	1.0	mg/L	25.00	137	108	80-120			
Magnesium	68.0	1.0	"	25.00	40.0	112	80-120			
Sodium	95.4	1.0	"	10.00	84.0	114	80-120			
Matrix Spike Dup (C000551-MSD1)		**Source: C6B1825-01**								
Calcium	165	1.0	mg/L	25.00	137	112	80-120	0.6	20	
Magnesium	67.8	1.0	"	25.00	40.0	111	80-120	0.3	20	
Sodium	94.0	1.0	"	10.00	84.0	100	80-120	1	20	

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # C6B1830 **Project: Linwood Discharge** **Date:** 03/01/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 02/18/16

Microbiology - Quality Control
GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch C000510 - BIO				**Prepared: 02/18/16 Analyzed: 02/19/16**						
Blank (C000510-BLK1)										
E. Coli	Absent		NA							
Total Coliform	Absent		"							
Duplicate (C000510-DUP1)		**Source: C6B1839-01**								
E. Coli	Absent		NA		0.0				0	
Total Coliform	Absent		"		0.0				0	

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # C6B1830 **Project: Linwood Discharge** **Date:** 03/01/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 02/18/16

Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
A	Absent
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
RL	Reporting Limit
NA	Not Applicable

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr
Turlock, CA 95380

Phone: (209) 669 0100
Fax: (209) 593 2212

Lab Report # CVD185V

Regulatory ☐ Yes ☐ No CC: ☐ Yes ☐ No

Regulator:

Phone: (209) 669-7919

Fax: (209) 250-1919

Original To: frontdesk@randjavila.com

C.C To:

Client: R & J Avila, Inc.

Address: 8119 Ellington Ave

City Hilmar Zip 95324

CHAIN OF CUSTODY

☐ EDF ☐ EDT

☐ FIELD LOGS

Project ID Linwood Discharge

Sampled By (Print Name) Rui Avila

(Signature) R. Avila

Date	Time	Sample type Grab	Sample type Comp	Matrix	Sample ID	Container Type	Container Size	No. Of Containers	Nitrate as N	TDS	E. Coli (P/A)	Total Coliform (P/A)	Ca, Mg, Na,	Bicarbonate	Carbonate	Sulfate	Chloride	Lab Use Only: Lab ID #	Lab Use Only: Preservative
2-18-16	10:45 Am	✓	DW		4230 W. Linwood		1L	1	✓	✓			✓	✓	✓	✓	✓	-01	
2-18-16	10:45 Am	✓	1		4230 W. Linwood		100ml	1			✓	✓							

Relinquished by (Signature)	Date	Time	Received by (Signature)	Date	Time
R. Avila	2-18-16	12:15 Pm	[illegible]	2-18-16	12:15
Relinquished by (Signature)	Date	Time	Received by (Signature)	Date	Time

Preservative: 1 4°C 2 HCL 3 NaOH 4 $Na_2S_2O_3$ 5 HNO_3 6 H_2SO_4 7 Other _____

Matrix: DW Drinking Water WW Waste Water HWW Hazardous Waste (Water) S Soil/Solid

Bailers _____ 55 Gallon Drums _____

Pump Truck ☐ Time Mileage

Turnaround Time ☐ Standard ☐ Silver Rush ☐ Gold Rush ☐ Platinum Rush ☐ Other

Approved By:

Exhibit 12

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # C6B1834 **Project: Linwood Discharge** **Date:** 03/01/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 02/18/16

CERTIFICATE OF ANALYSIS

Sampler: Rui Avila

Sample ID: 4318 W Linwood

Lab ID	Sample Date / Time	RL	Method	Analyte	Result	Units	Notes	Started
C6B1834-01	2/18/2016 10:13	1.0	200.7	Calcium	**190**	mg/L		02/25/16 09:03
		1.0		Magnesium	**62.0**	mg/L		"
		1.0		Sodium	**149**	mg/L		"
		5.0	300.0	Chloride	**209**	mg/L		02/18/16 12:25
		0.40		Nitrate as N	**10.1**	mg/L		"
		2.5		Sulfate as SO4	**114**	mg/L		"
		10.0	SM 2540 C	Total Dissolved Solids (TDS)	**1240**	mg/L		02/22/16 08:08
		20.0	SM2320B	Bicarbonate Alkalinity as CaCO3	**582**	mg/L		02/23/16 08:07
		24.4		Bicarbonate as HCO3	**710**	mg/L		"
		20.0		Carbonate Alkalinity as CaCO3	ND	mg/L		"
		12.0		Carbonate as CO3	ND	mg/L		"
		20.0		Hydroxide Alkalinity as CaCO3	ND	mg/L		"
		6.8		Hydroxide as OH	ND	mg/L		"
		20.0		Total Alkalinity as CaCO3	**582**	mg/L		"
		NA	SM9223 (Colitag)	E. Coli	Absent	NA		02/18/16 13:00
		NA		Total Coliform	Absent	NA		"

Kanti Gandhi
Chemist

Donna Keller
Laboratory Director

Certification # 2585

Exhibit 12

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # C6B1834 **Project: Linwood Discharge** **Date:** 03/01/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 02/18/16

Inorganic Chemistry - Quality Control
GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch C000479 - NO PREP				**Prepared: 02/16/16 Analyzed: 02/19/16**						
Blank (C000479-BLK1)										
Chloride	ND	1.0	mg/L							
Nitrate as N	ND	0.40	"							
Sulfate as SO4	ND	0.5	"							
LCS (C000479-BS1)										
Chloride	8.5	1.0	mg/L	10.00		85	80-120			
Nitrate as N	8.50	0.40	"	10.00		85	85-115			
Sulfate as SO4	8.9	0.5	"	10.00		89	80-120			
LCS Dup (C000479-BSD1)										
Chloride	8.5	1.0	mg/L	10.00		85	80-120	0.4	20	
Nitrate as N	8.50	0.40	"	10.00		85	85-115	0.04	20	
Sulfate as SO4	9.0	0.5	"	10.00		90	80-120	0.7	20	
Matrix Spike (C000479-MS1)		**Source: C6B1503-01**								
Chloride	21.6	1.0	mg/L	10.00	14.3	72	80-120			QM-07
Nitrate as N	17.9	0.40	"	10.00	10.1	78	85-115			QM-07
Sulfate as SO4	47.1	0.5	"	10.00	46.2	9	80-120			QM-07
Matrix Spike Dup (C000479-MSD1)		**Source: C6B1503-01**								
Chloride	21.5	1.0	mg/L	10.00	14.3	72	80-120	0.6	20	QM-07
Nitrate as N	17.8	0.40	"	10.00	10.1	77	85-115	0.3	20	QM-07
Sulfate as SO4	47.1	0.5	"	10.00	46.2	9	80-120	0.08	20	QM-07
Batch C000516 - NO PREP				**Prepared: 02/22/16 Analyzed: 02/23/16**						
Blank (C000516-BLK1)										
Total Dissolved Solids (TDS)	ND	10.0	mg/L							
Duplicate (C000516-DUP1)		**Source: C6B1835-01**								
Total Dissolved Solids (TDS)	797	10.0	mg/L		797			0	10	

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
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Report # C6B1834 **Project: Linwood Discharge** **Date:** 03/01/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 02/18/16

Inorganic Chemistry - Quality Control
GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch C000539 - NO PREP				**Prepared: 02/23/16 Analyzed: 02/25/16**						
Blank (C000539-BLK1)										
Bicarbonate Alkalinity as CaCO3	ND	20.0	mg/L							
Carbonate Alkalinity as CaCO3	ND	20.0	"							
Hydroxide Alkalinity as CaCO3	ND	20.0	"							
Total Alkalinity as CaCO3	ND	20.0	"							
LCS (C000539-BS1)										
Total Alkalinity as CaCO3	39.0	20.0	mg/L	40.00		98	80-120			
LCS Dup (C000539-BSD1)										
Total Alkalinity as CaCO3	38.9	20.0	mg/L	40.00		97	80-120	0.4	10	
Matrix Spike (C000539-MS1)		**Source: C6B1825-01**								
Total Alkalinity as CaCO3	388	20.0	mg/L	40.00	353	88	80-120			
Matrix Spike Dup (C000539-MSD1)		**Source: C6B1825-01**								
Total Alkalinity as CaCO3	388	20.0	mg/L	40.00	353	86	80-120	0.2	20	
Batch C000552 - NONE				**Prepared & Analyzed: 02/25/16**						
Blank (C000552-BLK1)										
Calcium	ND	1.0	mg/L							
Magnesium	ND	1.0	"							
Sodium	ND	1.0	"							
LCS (C000552-BS1)										
Calcium	26.2	1.0	mg/L	25.00		105	80-120			
Magnesium	26.6	1.0	"	25.00		106	80-120			
Sodium	10.7	1.0	"	10.00		107	80-120			
LCS Dup (C000552-BSD1)										
Calcium	26.2	1.0	mg/L	25.00		105	80-120	0	20	
Magnesium	26.7	1.0	"	25.00		107	80-120	0.4	20	
Sodium	10.7	1.0	"	10.00		107	80-120	0	20	

GeoAnalytical Laboratories, Inc.

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email: info@geoanalyticallab.com

Report # C6B1834 **Project: Linwood Discharge** **Date:** 03/01/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 02/18/16

Inorganic Chemistry - Quality Control
GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch C000552 - NONE				**Prepared & Analyzed: 02/25/16**						
Matrix Spike (C000552-MS1)		**Source: C6B1832-01**								
Calcium	156	1.0	mg/L	25.00	128	112	80-120			
Magnesium	63.7	1.0	"	25.00	36.3	110	80-120			
Sodium	100	1.0	"	10.00	106	NR	80-120			QM-02
Matrix Spike Dup (C000552-MSD1)		**Source: C6B1832-01**								
Calcium	155	1.0	mg/L	25.00	128	108	80-120	0.6	20	
Magnesium	63.3	1.0	"	25.00	36.3	108	80-120	0.6	20	
Sodium	82.1	1.0	"	10.00	106	NR	80-120	20	20	QM-02

GeoAnalytical Laboratories, Inc.

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Report # C6B1834 **Project: Linwood Discharge** **Date:** 03/01/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 02/18/16

Microbiology - Quality Control

GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch C000510 - BIO			**Prepared: 02/18/16 Analyzed: 02/19/16**							
Blank (C000510-BLK1)										
E. Coli	Absent		NA							
Total Coliform	Absent		"							
Duplicate (C000510-DUP1)		**Source: C6B1839-01**								
E. Coli	Absent		NA		0.0				0	
Total Coliform	Absent		"		0.0				0	

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212

email: info@geoanalyticallab.com

Report # C6B1834 **Project: Linwood Discharge** **Date:** 03/01/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 02/18/16

Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
QM-02	The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.
A	Absent
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
RL	Reporting Limit
NA	Not Applicable

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr
Turlock, CA 95380

Phone: (209) 669 0100
Fax: (209) 593 2212

Lab Report # 16B1834

Regulatory ☐ Yes ☐ No CC: ☐ Yes ☐ No

Regulator:

Phone: (209) 669-7919

Fax: (209) 250-1919

Original To: frontdesk@randjavila.com

C.C To:

Client: R & J Avila, Inc.

Address: 8119 Ellington Ave

City Hilmar Zip 95324

CHAIN OF CUSTODY

☐ EDF ☐ EDT

☐ FIELD LOGS

Project ID Linwood Discharge

Sampled By (Print Name) Rui Avila

(Signature) R=Avila

Date	Time	Sample type Grab	Sample type Comp	Matrix	Sample ID	Container Type	Container Size	No. Of Containers	Nitrate as N	TDS	E. Coli (P/A)	Total Coliform (P/A)	Ca, Mg, Na,	Bicarbonate	Carbonate	Sulfate	Chloride	Lab Use Only: Lab ID #	Lab Use Only: Preservative
2-18-16	10:13 Am	✓	DW		4318 W. Linwood		1L	1	✓	✓			✓	✓	✓	✓	✓	-01	
2-18-16	10:13 Am	✓	↓		4318 W. Linwood		100ml	1			✓	✓							

Relinquished by (Signature)	Date	Time	Received by (Signature)	Date	Time
R=Avila	2-18-16	12:15 Pm	[illegible]	2-18-16	12:15

Preservative: 1 4°C 2 HCL 3 NaOH 4 $Na_2S_2O_3$ 5 HNO_3 6 H_2SO_4 7 Other _____

Matrix: DW Drinking Water WW Waste Water HWW Hazardous Waste (Water) S Soil/Solid

Bailers _____ 55 Gallon Drums _____

Pump Truck ☐ Time Mileage

Turnaround Time ☐ Standard ☐ Silver Rush ☐ Gold Rush ☐ Platinum Rush ☐ Other

Approved By:

Exhibit 12

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # C6B1826 **Project: Linwood Discharge** **Date:** 03/01/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 02/18/16

CERTIFICATE OF ANALYSIS

Sampler: Rui Avila

Sample ID: 4406 Linwood House

Lab ID	Sample Date / Time	RL	Method	Analyte	Result	Units	Notes	Started
C6B1826-01	2/18/2016 11:50	1.0	200.7	Calcium	**130**	mg/L		02/25/16 08:59
		1.0		Magnesium	**42.2**	mg/L		"
		1.0		Sodium	**112**	mg/L		"
		5.0	300.0	Chloride	**121**	mg/L		02/18/16 12:25
		0.40		Nitrate as N	**14.3**	mg/L		"
		2.5		Sulfate as SO4	**80.1**	mg/L		"
		10.0	SM 2540 C	Total Dissolved Solids (TDS)	**928**	mg/L		02/22/16 08:08
		20.0	SM2320B	Bicarbonate Alkalinity as CaCO3	**456**	mg/L		02/23/16 08:07
		24.4		Bicarbonate as HCO3	**556**	mg/L		"
		20.0		Carbonate Alkalinity as CaCO3	ND	mg/L		"
		12.0		Carbonate as CO3	ND	mg/L		"
		20.0		Hydroxide Alkalinity as CaCO3	ND	mg/L		"
		6.8		Hydroxide as OH	ND	mg/L		"
		20.0		Total Alkalinity as CaCO3	**456**	mg/L		"
		NA	SM9223 (Colitag)	E. Coli	Absent	NA		02/18/16 12:50
		NA		Total Coliform	Absent	NA		"

Kanti Gandhi
Chemist

Donna Keller
Laboratory Director

Certification # 2585

Exhibit 12

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212

email: info@geoanalyticallab.com

Report # C6B1826 **Project: Linwood Discharge** **Date:** 03/01/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 02/18/16

Inorganic Chemistry - Quality Control

GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch C000479 - NO PREP				**Prepared: 02/16/16 Analyzed: 02/19/16**						
Blank (C000479-BLK1)										
Chloride	ND	1.0	mg/L							
Nitrate as N	ND	0.40	"							
Sulfate as SO4	ND	0.5	"							
LCS (C000479-BS1)										
Chloride	8.5	1.0	mg/L	10.00		85	80-120			
Nitrate as N	8.50	0.40	"	10.00		85	85-115			
Sulfate as SO4	8.9	0.5	"	10.00		89	80-120			
LCS Dup (C000479-BSD1)										
Chloride	8.5	1.0	mg/L	10.00		85	80-120	0.4	20	
Nitrate as N	8.50	0.40	"	10.00		85	85-115	0.04	20	
Sulfate as SO4	9.0	0.5	"	10.00		90	80-120	0.7	20	
Matrix Spike (C000479-MS1)		**Source: C6B1503-01**								
Chloride	21.6	1.0	mg/L	10.00	14.3	72	80-120			QM-07
Nitrate as N	17.9	0.40	"	10.00	10.1	78	85-115			QM-07
Sulfate as SO4	47.1	0.5	"	10.00	46.2	9	80-120			QM-07
Matrix Spike Dup (C000479-MSD1)		**Source: C6B1503-01**								
Chloride	21.5	1.0	mg/L	10.00	14.3	72	80-120	0.6	20	QM-07
Nitrate as N	17.8	0.40	"	10.00	10.1	77	85-115	0.3	20	QM-07
Sulfate as SO4	47.1	0.5	"	10.00	46.2	9	80-120	0.08	20	QM-07
Batch C000516 - NO PREP				**Prepared: 02/22/16 Analyzed: 02/23/16**						
Blank (C000516-BLK1)										
Total Dissolved Solids (TDS)	ND	10.0	mg/L							
Duplicate (C000516-DUP1)		**Source: C6B1835-01**								
Total Dissolved Solids (TDS)	797	10.0	mg/L		797			0	10	

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212

email: info@geoanalyticallab.com

Report # C6B1826 **Project: Linwood Discharge** **Date:** 03/01/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 02/18/16

Inorganic Chemistry - Quality Control

GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch C000539 - NO PREP			**Prepared: 02/23/16 Analyzed: 02/25/16**							
Blank (C000539-BLK1)										
Bicarbonate Alkalinity as CaCO3	ND	20.0	mg/L							
Carbonate Alkalinity as CaCO3	ND	20.0	"							
Hydroxide Alkalinity as CaCO3	ND	20.0	"							
Total Alkalinity as CaCO3	ND	20.0	"							
LCS (C000539-BS1)										
Total Alkalinity as CaCO3	39.0	20.0	mg/L	40.00		98	80-120			
LCS Dup (C000539-BSD1)										
Total Alkalinity as CaCO3	38.9	20.0	mg/L	40.00		97	80-120	0.4	10	
Matrix Spike (C000539-MS1)		**Source: C6B1825-01**								
Total Alkalinity as CaCO3	388	20.0	mg/L	40.00	353	88	80-120			
Matrix Spike Dup (C000539-MSD1)		**Source: C6B1825-01**								
Total Alkalinity as CaCO3	388	20.0	mg/L	40.00	353	86	80-120	0.2	20	
Batch C000551 - NONE			**Prepared & Analyzed: 02/25/16**							
Blank (C000551-BLK1)										
Calcium	ND	1.0	mg/L							
Magnesium	ND	1.0	"							
Sodium	ND	1.0	"							
LCS (C000551-BS1)										
Calcium	26.2	1.0	mg/L	25.00		105	80-120			
Magnesium	26.6	1.0	"	25.00		106	80-120			
Sodium	10.7	1.0	"	10.00		107	80-120			
LCS Dup (C000551-BSD1)										
Calcium	26.2	1.0	mg/L	25.00		105	80-120	0	20	
Magnesium	26.7	1.0	"	25.00		107	80-120	0.4	20	
Sodium	10.7	1.0	"	10.00		107	80-120	0	20	

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Report # C6B1826 **Project: Linwood Discharge** **Date:** 03/01/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 02/18/16

Inorganic Chemistry - Quality Control

GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch C000551 - NONE				**Prepared & Analyzed: 02/25/16**						
Matrix Spike (C000551-MS1)		**Source: C6B1825-01**								
Calcium	164	1.0	mg/L	25.00	137	108	80-120			
Magnesium	68.0	1.0	"	25.00	40.0	112	80-120			
Sodium	95.4	1.0	"	10.00	84.0	114	80-120			
Matrix Spike Dup (C000551-MSD1)		**Source: C6B1825-01**								
Calcium	165	1.0	mg/L	25.00	137	112	80-120	0.6	20	
Magnesium	67.8	1.0	"	25.00	40.0	111	80-120	0.3	20	
Sodium	94.0	1.0	"	10.00	84.0	100	80-120	1	20	

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212

email: info@geoanalyticallab.com

Report # C6B1826 **Project: Linwood Discharge** **Date:** 03/01/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 02/18/16

Microbiology - Quality Control

GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch C000510 - BIO				**Prepared: 02/18/16 Analyzed: 02/19/16**						
Blank (C000510-BLK1)										
E. Coli	Absent		NA							
Total Coliform	Absent		"							
Duplicate (C000510-DUP1)		**Source: C6B1839-01**								
E. Coli	Absent		NA		0.0				0	
Total Coliform	Absent		"		0.0				0	

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212

email: info@geoanalyticallab.com

Report # C6B1826 **Project: Linwood Discharge** **Date:** 03/01/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 02/18/16

Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
A	Absent
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
RL	Reporting Limit
NA	Not Applicable

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr
Turlock, CA 95380

Phone: (209) 669 0100
Fax: (209) 593 2212

Lab Report # CYB1826

Regulatory ☐ Yes ☐ No CC: ☐ Yes ☐ No

Regulator:

Phone: (209) 669-7919

Fax: (209) 250-1919

Original To: frontdesk@randjavila.com

C.C To:

Client: R & J Avila, Inc.

Address: 8119 Ellington Ave

City Hilmar Zip 95324

CHAIN OF CUSTODY

☐ EDF ☐ EDT

☐ FIELD LOGS

Project ID Linwood Discharge

Sampled By (Print Name) Rui Avila

(Signature) R. Avila

Date	Time	Sample type Grab	Sample type Comp	Matrix	Sample ID	Container Type	Container Size	No. Of Containers	Nitrate as N	TDS	E. Coli (P/A)	Total Coliform (P/A)	Ca, Mg, Na,	Bicarbonate	Carbonate	Sulfate	Chloride	Lab Use Only: Lab ID #	Lab Use Only: Preservative
2-18-16	11:50 am	✓	DW		4406 Linwood House		1L	1	✓	✓			✓	✓	✓	✓	✓	-01	
2-18-16	11:50 am	✓	⊥		4406 Linwood House		100ml	1			✓	✓							

Relinquished by (Signature)	Date	Time	Received by (Signature)	Date	Time
R. Avila	2-18-16	12:15 pm	[illegible]	2-18-16	12:15
Relinquished by (Signature)	Date	Time	Received by (Signature)	Date	Time

Preservative: 1 4°C 2 HCL 3 NaOH 4 $Na_2S_2O_3$ 5 HNO_3 6 H_2SO_4 7 Other _____

Matrix: DW Drinking Water WW Waste Water HWW Hazardous Waste (Water) S Soil/Solid

Bailers _____ 55 Gallon Drums _____

Pump Truck ☐ Time Mileage

Turnaround Time ☐ Standard ☐ Silver Rush ☐ Gold Rush ☐ Platinum Rush ☐ Other

Approved By:

Exhibit 12

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # C6B1828 **Project: Linwood Discharge** **Date:** 03/01/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 02/18/16

CERTIFICATE OF ANALYSIS

Sampler: Rui Avila

Sample ID: 4500 W Linwood

Lab ID	Sample Date / Time	RL	Method	Analyte	Result	Units	Notes	Started
C6B1828-01	2/18/2016 11:20	1.0	200.7	Calcium	**22**	mg/L		02/25/16 08:59
		1.0		Magnesium	**3.0**	mg/L		"
		1.0		Sodium	**31.4**	mg/L		"
		1.0	300.0	Chloride	**22.4**	mg/L		02/18/16 12:25
		0.40		Nitrate as N	**2.05**	mg/L		"
		0.5		Sulfate as SO4	**4.9**	mg/L		"
		10.0	SM 2540 C	Total Dissolved Solids (TDS)	**221**	mg/L		02/22/16 08:08
		20.0	SM2320B	Bicarbonate Alkalinity as CaCO3	**103**	mg/L		02/23/16 08:07
		24.4		Bicarbonate as HCO3	**125**	mg/L		"
		20.0		Carbonate Alkalinity as CaCO3	ND	mg/L		"
		12.0		Carbonate as CO3	ND	mg/L		"
		20.0		Hydroxide Alkalinity as CaCO3	ND	mg/L		"
		6.8		Hydroxide as OH	ND	mg/L		"
		20.0		Total Alkalinity as CaCO3	**103**	mg/L		"
		NA	SM9223 (Colitag)	E. Coli	Absent	NA		02/18/16 13:00
		NA		Total Coliform	Absent	NA		"

Kanti Gandhi
Chemist

Donna Keller
Laboratory Director

Certification # 2585

Exhibit 12

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # C6B1828 **Project: Linwood Discharge** **Date:** 03/01/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 02/18/16

Inorganic Chemistry - Quality Control
GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch C000479 - NO PREP				**Prepared: 02/16/16 Analyzed: 02/19/16**						
Blank (C000479-BLK1)										
Chloride	ND	1.0	mg/L							
Nitrate as N	ND	0.40	"							
Sulfate as SO4	ND	0.5	"							
LCS (C000479-BS1)										
Chloride	8.5	1.0	mg/L	10.00		85	80-120			
Nitrate as N	8.50	0.40	"	10.00		85	85-115			
Sulfate as SO4	8.9	0.5	"	10.00		89	80-120			
LCS Dup (C000479-BSD1)										
Chloride	8.5	1.0	mg/L	10.00		85	80-120	0.4	20	
Nitrate as N	8.50	0.40	"	10.00		85	85-115	0.04	20	
Sulfate as SO4	9.0	0.5	"	10.00		90	80-120	0.7	20	
Matrix Spike (C000479-MS1)		**Source: C6B1503-01**								
Chloride	21.6	1.0	mg/L	10.00	14.3	72	80-120			QM-07
Nitrate as N	17.9	0.40	"	10.00	10.1	78	85-115			QM-07
Sulfate as SO4	47.1	0.5	"	10.00	46.2	9	80-120			QM-07
Matrix Spike Dup (C000479-MSD1)		**Source: C6B1503-01**								
Chloride	21.5	1.0	mg/L	10.00	14.3	72	80-120	0.6	20	QM-07
Nitrate as N	17.8	0.40	"	10.00	10.1	77	85-115	0.3	20	QM-07
Sulfate as SO4	47.1	0.5	"	10.00	46.2	9	80-120	0.08	20	QM-07
Batch C000516 - NO PREP				**Prepared: 02/22/16 Analyzed: 02/23/16**						
Blank (C000516-BLK1)										
Total Dissolved Solids (TDS)	ND	10.0	mg/L							
Duplicate (C000516-DUP1)		**Source: C6B1835-01**								
Total Dissolved Solids (TDS)	797	10.0	mg/L		797			0	10	

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # C6B1828 **Project: Linwood Discharge** **Date:** 03/01/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 02/18/16

Inorganic Chemistry - Quality Control
GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch C000539 - NO PREP				**Prepared: 02/23/16 Analyzed: 02/25/16**						
Blank (C000539-BLK1)										
Bicarbonate Alkalinity as CaCO3	ND	20.0	mg/L							
Carbonate Alkalinity as CaCO3	ND	20.0	"							
Hydroxide Alkalinity as CaCO3	ND	20.0	"							
Total Alkalinity as CaCO3	ND	20.0	"							
LCS (C000539-BS1)										
Total Alkalinity as CaCO3	39.0	20.0	mg/L	40.00		98	80-120			
LCS Dup (C000539-BSD1)										
Total Alkalinity as CaCO3	38.9	20.0	mg/L	40.00		97	80-120	0.4	10	
Matrix Spike (C000539-MS1)		**Source: C6B1825-01**								
Total Alkalinity as CaCO3	388	20.0	mg/L	40.00	353	88	80-120			
Matrix Spike Dup (C000539-MSD1)		**Source: C6B1825-01**								
Total Alkalinity as CaCO3	388	20.0	mg/L	40.00	353	86	80-120	0.2	20	
Batch C000551 - NONE				**Prepared & Analyzed: 02/25/16**						
Blank (C000551-BLK1)										
Calcium	ND	1.0	mg/L							
Magnesium	ND	1.0	"							
Sodium	ND	1.0	"							
LCS (C000551-BS1)										
Calcium	26.2	1.0	mg/L	25.00		105	80-120			
Magnesium	26.6	1.0	"	25.00		106	80-120			
Sodium	10.7	1.0	"	10.00		107	80-120			
LCS Dup (C000551-BSD1)										
Calcium	26.2	1.0	mg/L	25.00		105	80-120	0	20	
Magnesium	26.7	1.0	"	25.00		107	80-120	0.4	20	
Sodium	10.7	1.0	"	10.00		107	80-120	0	20	

GeoAnalytical Laboratories, Inc.

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email: info@geoanalyticallab.com

Report # C6B1828 **Project: Linwood Discharge** **Date:** 03/01/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 02/18/16

Inorganic Chemistry - Quality Control

GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch C000551 - NONE				**Prepared & Analyzed: 02/25/16**						
Matrix Spike (C000551-MS1)		**Source: C6B1825-01**								
Calcium	164	1.0	mg/L	25.00	137	108	80-120			
Magnesium	68.0	1.0	"	25.00	40.0	112	80-120			
Sodium	95.4	1.0	"	10.00	84.0	114	80-120			
Matrix Spike Dup (C000551-MSD1)		**Source: C6B1825-01**								
Calcium	165	1.0	mg/L	25.00	137	112	80-120	0.6	20	
Magnesium	67.8	1.0	"	25.00	40.0	111	80-120	0.3	20	
Sodium	94.0	1.0	"	10.00	84.0	100	80-120	1	20	

GeoAnalytical Laboratories, Inc.

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email: info@geoanalyticallab.com

Report # C6B1828 **Project: Linwood Discharge** **Date:** 03/01/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 02/18/16

Microbiology - Quality Control
GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch C000510 - BIO			**Prepared: 02/18/16 Analyzed: 02/19/16**							
Blank (C000510-BLK1)										
E. Coli	Absent		NA							
Total Coliform	Absent		"							
Duplicate (C000510-DUP1)		**Source: C6B1839-01**								
E. Coli	Absent		NA		0.0				0	
Total Coliform	Absent		"		0.0				0	

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212

email: info@geoanalyticallab.com

Report # C6B1828 **Project: Linwood Discharge** **Date:** 03/01/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 02/18/16

Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
A	Absent
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
RL	Reporting Limit
NA	Not Applicable

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr
Turlock, CA 95380

Phone: (209) 669 0100
Fax: (209) 593 2212

Lab Report # 16B1878

Regulatory ☐ Yes ☐ No CC: ☐ Yes ☐ No

Regulator:

Phone: (209) 669-7919

Fax: (209) 250-1919

Original To: frontdesk@randjavila.com

C.C To:

Client: R & J Avila, Inc.

Address: 8119 Ellington Ave

City Hilmar Zip 95324

CHAIN OF CUSTODY

☐ EDF ☐ EDT

☐ FIELD LOGS

Project ID Linwood Discharge

Sampled By (Print Name) Rui Avila

(Signature) R. Avila

Date	Time	Sample type Grab	Sample type Comp	Matrix	Sample ID	Container Type	Container Size	No. Of Containers	Nitrate as N	TDS	E. Coli (P/A)	Total Coliform (P/A)	Ca, Mg, Na,	Bicarbonate	Carbonate	Sulfate	Chloride	Lab Use Only: Lab ID #	Lab Use Only: Preservative
2-18-16	11:20 am	✓	✓		4500 W. Linwood		1L	1	✓	✓			✓	✓	✓	✓	✓	-01	
2-18-16	11:20 am	✓	⊥		4500 W. Linwood		100ml	1			✓	✓							

Relinquished by (Signature)	Date	Time	Received by (Signature)	Date	Time
R. Avila	2-18-16	12:15 pm	[illegible]	2-18-16	12:15
Relinquished by (Signature)	Date	Time	Received by (Signature)	Date	Time

Preservative: 1 4°C 2 HCL 3 -NaOH 4 $Na_2S_2O_3$ 5 -HNO_3 6 -H_2SO_4 7 -Other _____

Matrix: DW Drinking Water WW Waste Water HWW Hazardous Waste (Water) S Soil/Solid

Bailers _____ 55 Gallon Drums _____

Pump Truck ☐ Time Mileage

Turnaround Time ☐ Standard ☐ Silver Rush ☐ Gold Rush ☐ Platinum Rush ☐ Other

Approved By: _____

Exhibit 12

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # C6B1829 **Project: Linwood Discharge** **Date:** 03/01/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 02/18/16

CERTIFICATE OF ANALYSIS

Sampler: Rui Avila

Sample ID: 4530 W Linwood

Lab ID	Sample Date / Time	RL	Method	Analyte	Result	Units	Notes	Started
C6B1829-01	2/18/2016 10:55	1.0	200.7	Calcium	**99**	mg/L		02/25/16 08:59
		1.0		Magnesium	**31.0**	mg/L		"
		1.0		Sodium	**107**	mg/L		"
		5.0	300.0	Chloride	**73.6**	mg/L		02/18/16 12:25
		0.40		Nitrate as N	**15.4**	mg/L		"
		2.5		Sulfate as SO4	**60.2**	mg/L		"
		10.0	SM 2540 C	Total Dissolved Solids (TDS)	**742**	mg/L		02/22/16 08:08
		20.0	SM2320B	Bicarbonate Alkalinity as CaCO3	**385**	mg/L		02/23/16 08:07
		24.4		Bicarbonate as HCO3	**469**	mg/L		"
		20.0		Carbonate Alkalinity as CaCO3	ND	mg/L		"
		12.0		Carbonate as CO3	ND	mg/L		"
		20.0		Hydroxide Alkalinity as CaCO3	ND	mg/L		"
		6.8		Hydroxide as OH	ND	mg/L		"
		20.0		Total Alkalinity as CaCO3	**385**	mg/L		"
		NA	SM9223 (Colitag)	E. Coli	Absent	NA		02/18/16 13:00
		NA		Total Coliform	Absent	NA		"

Kanti Gandhi
Chemist

Donna Keller
Laboratory Director

Certification # 2585

Exhibit 12

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # C6B1829 **Project: Linwood Discharge** **Date:** 03/01/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 02/18/16

Inorganic Chemistry - Quality Control
GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch C000479 - NO PREP			**Prepared: 02/16/16 Analyzed: 02/19/16**							
Blank (C000479-BLK1)										
Chloride	ND	1.0	mg/L							
Nitrate as N	ND	0.40	"							
Sulfate as SO4	ND	0.5	"							
LCS (C000479-BS1)										
Chloride	8.5	1.0	mg/L	10.00		85	80-120			
Nitrate as N	8.50	0.40	"	10.00		85	85-115			
Sulfate as SO4	8.9	0.5	"	10.00		89	80-120			
LCS Dup (C000479-BSD1)										
Chloride	8.5	1.0	mg/L	10.00		85	80-120	0.4	20	
Nitrate as N	8.50	0.40	"	10.00		85	85-115	0.04	20	
Sulfate as SO4	9.0	0.5	"	10.00		90	80-120	0.7	20	
Matrix Spike (C000479-MS1)		**Source: C6B1503-01**								
Chloride	21.6	1.0	mg/L	10.00	14.3	72	80-120			QM-07
Nitrate as N	17.9	0.40	"	10.00	10.1	78	85-115			QM-07
Sulfate as SO4	47.1	0.5	"	10.00	46.2	9	80-120			QM-07
Matrix Spike Dup (C000479-MSD1)		**Source: C6B1503-01**								
Chloride	21.5	1.0	mg/L	10.00	14.3	72	80-120	0.6	20	QM-07
Nitrate as N	17.8	0.40	"	10.00	10.1	77	85-115	0.3	20	QM-07
Sulfate as SO4	47.1	0.5	"	10.00	46.2	9	80-120	0.08	20	QM-07
Batch C000516 - NO PREP			**Prepared: 02/22/16 Analyzed: 02/23/16**							
Blank (C000516-BLK1)										
Total Dissolved Solids (TDS)	ND	10.0	mg/L							
Duplicate (C000516-DUP1)		**Source: C6B1835-01**								
Total Dissolved Solids (TDS)	797	10.0	mg/L		797			0	10	

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212

email: info@geoanalyticallab.com

Report # C6B1829 **Project: Linwood Discharge** **Date:** 03/01/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 02/18/16

Inorganic Chemistry - Quality Control

GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch C000539 - NO PREP				**Prepared: 02/23/16 Analyzed: 02/25/16**						
Blank (C000539-BLK1)										
Bicarbonate Alkalinity as CaCO3	ND	20.0	mg/L							
Carbonate Alkalinity as CaCO3	ND	20.0	"							
Hydroxide Alkalinity as CaCO3	ND	20.0	"							
Total Alkalinity as CaCO3	ND	20.0	"							
LCS (C000539-BS1)										
Total Alkalinity as CaCO3	39.0	20.0	mg/L	40.00		98	80-120			
LCS Dup (C000539-BSD1)										
Total Alkalinity as CaCO3	38.9	20.0	mg/L	40.00		97	80-120	0.4	10	
Matrix Spike (C000539-MS1)		**Source: C6B1825-01**								
Total Alkalinity as CaCO3	388	20.0	mg/L	40.00	353	88	80-120			
Matrix Spike Dup (C000539-MSD1)		**Source: C6B1825-01**								
Total Alkalinity as CaCO3	388	20.0	mg/L	40.00	353	86	80-120	0.2	20	
Batch C000551 - NONE				**Prepared & Analyzed: 02/25/16**						
Blank (C000551-BLK1)										
Calcium	ND	1.0	mg/L							
Magnesium	ND	1.0	"							
Sodium	ND	1.0	"							
LCS (C000551-BS1)										
Calcium	26.2	1.0	mg/L	25.00		105	80-120			
Magnesium	26.6	1.0	"	25.00		106	80-120			
Sodium	10.7	1.0	"	10.00		107	80-120			
LCS Dup (C000551-BSD1)										
Calcium	26.2	1.0	mg/L	25.00		105	80-120	0	20	
Magnesium	26.7	1.0	"	25.00		107	80-120	0.4	20	
Sodium	10.7	1.0	"	10.00		107	80-120	0	20	

GeoAnalytical Laboratories, Inc.

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Report # C6B1829 **Project: Linwood Discharge** **Date:** 03/01/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 02/18/16

Inorganic Chemistry - Quality Control

GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch C000551 - NONE				**Prepared & Analyzed: 02/25/16**						
Matrix Spike (C000551-MS1)		**Source: C6B1825-01**								
Calcium	164	1.0	mg/L	25.00	137	108	80-120			
Magnesium	68.0	1.0	"	25.00	40.0	112	80-120			
Sodium	95.4	1.0	"	10.00	84.0	114	80-120			
Matrix Spike Dup (C000551-MSD1)		**Source: C6B1825-01**								
Calcium	165	1.0	mg/L	25.00	137	112	80-120	0.6	20	
Magnesium	67.8	1.0	"	25.00	40.0	111	80-120	0.3	20	
Sodium	94.0	1.0	"	10.00	84.0	100	80-120	1	20	

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # C6B1829 **Project: Linwood Discharge** **Date:** 03/01/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 02/18/16

Microbiology - Quality Control
GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch C000510 - BIO				**Prepared: 02/18/16 Analyzed: 02/19/16**						
Blank (C000510-BLK1)										
E. Coli	Absent		NA							
Total Coliform	Absent		"							
Duplicate (C000510-DUP1)		**Source: C6B1839-01**								
E. Coli	Absent		NA		0.0				0	
Total Coliform	Absent		"		0.0				0	

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212

email: info@geoanalyticallab.com

Report # C6B1829 **Project: Linwood Discharge** **Date:** 03/01/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 02/18/16

Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
A	Absent
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
RL	Reporting Limit
NA	Not Applicable

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr
Turlock, CA 95380

Phone: (209) 669 0100
Fax: (209) 593 2212

Lab Report # CVB1829

Regulatory ☐ Yes ☐ No CC: ☐ Yes ☐ No

Regulator:

Phone: (209) 669-7919

Fax: (209) 250-1919

Original To: frontdesk@randjavila.com

C.C To:

Client: R & J Avila, Inc.

Address: 8119 Ellington Ave

City Hilmar Zip 95324

CHAIN OF CUSTODY

☐ EDF ☐ EDT

☐ FIELD LOGS

Project ID Linwood Discharge

Sampled By (Print Name) Rui Avila

(Signature) R. Avila

Date	Time	Sample type Grab	Sample type Comp	Matrix	Sample ID	Container Type	Container Size	No. Of Containers	Nitrate as N	TDS	E. Coli (P/A)	Total Coliform (P/A)	Ca, Mg, Na,	Bicarbonate	Carbonate	Sulfate	Chloride	Lab Use Only: Lab ID #	Lab Use Only: Preservative
2-18-16	10:55 AM	✓	DW		4530 W. Linwood		1L	1	✓	✓			✓	✓	✓	✓	✓	-01	
2-18-16	10:55 AM	✓	⊥		4530 W. Linwood		100ml	1			✓	✓							

Relinquished by (Signature)	Date	Time	Received by (Signature)	Date	Time
R. Avila	2-18-16	12:15pm	[signature]	2-18-16	12:15
Relinquished by (Signature)	Date	Time	Received by (Signature)	Date	Time

Preservative: 1 4°C 2 HCL 3 NaOH 4 $Na_2S_2O_3$ 5 HNO_3 6 H_2SO_4 7 Other _____

DW Drinking Water WW Waste Water HWW Hazardous Waste (Water) S Soil/Solid

Bailers _____ 55 Gallon Drums _____

Pump Truck ☐ Time Mileage

Turnaround Time ☐ Standard ☐ Silver Rush ☐ Gold Rush ☐ Platinum Rush ☐ Other

Approved By: _____

Exhibit 12

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # C6B1831 **Project: Linwood Discharge** **Date:** 03/01/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 02/18/16

CERTIFICATE OF ANALYSIS

Sampler: Rui Avila

Sample ID: 4600 W Linwood

Lab ID	Sample Date / Time	RL	Method	Analyte	Result	Units	Notes	Started
C6B1831-01	2/18/2016 10:35	1.0	200.7	Calcium	**100**	mg/L		02/25/16 08:59
		1.0		Magnesium	**30.4**	mg/L		"
		1.0		Sodium	**57.3**	mg/L		"
		1.0	300.0	Chloride	**53.0**	mg/L		02/18/16 12:25
		0.40		Nitrate as N	**10.4**	mg/L		"
		0.5		Sulfate as SO4	**40.7**	mg/L		"
		10.0	SM 2540 C	Total Dissolved Solids (TDS)	**645**	mg/L		02/22/16 03:08
		20.0	SM2320B	Bicarbonate Alkalinity as CaCO3	**380**	mg/L		02/23/16 03:07
		24.4		Bicarbonate as HCO3	**464**	mg/L		"
		20.0		Carbonate Alkalinity as CaCO3	ND	mg/L		"
		12.0		Carbonate as CO3	ND	mg/L		"
		20.0		Hydroxide Alkalinity as CaCO3	ND	mg/L		"
		6.8		Hydroxide as OH	ND	mg/L		"
		20.0		Total Alkalinity as CaCO3	**380**	mg/L		"
		NA	SM9223 (Colitag)	E. Coli	Absent	NA		02/18/16 13:00
		NA		Total Coliform	Absent	NA		"

Kanti Gandhi
Chemist

Donna Keller
Laboratory Director

Certification # 2585

Exhibit 12

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # C6B1831 **Project: Linwood Discharge** **Date:** 03/01/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 02/18/16

Inorganic Chemistry - Quality Control
GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch C000479 - NO PREP				**Prepared: 02/16/16 Analyzed: 02/19/16**						
Blank (C000479-BLK1)										
Chloride	ND	1.0	mg/L							
Nitrate as N	ND	0.40	"							
Sulfate as SO4	ND	0.5	"							
LCS (C000479-BS1)										
Chloride	8.5	1.0	mg/L	10.00		85	80-120			
Nitrate as N	8.50	0.40	"	10.00		85	85-115			
Sulfate as SO4	8.9	0.5	"	10.00		89	80-120			
LCS Dup (C000479-BSD1)										
Chloride	8.5	1.0	mg/L	10.00		85	80-120	0.4	20	
Nitrate as N	8.50	0.40	"	10.00		85	85-115	0.04	20	
Sulfate as SO4	9.0	0.5	"	10.00		90	80-120	0.7	20	
Matrix Spike (C000479-MS1)		**Source: C6B1503-01**								
Chloride	21.6	1.0	mg/L	10.00	14.3	72	80-120			QM-07
Nitrate as N	17.9	0.40	"	10.00	10.1	78	85-115			QM-07
Sulfate as SO4	47.1	0.5	"	10.00	46.2	9	80-120			QM-07
Matrix Spike Dup (C000479-MSD1)		**Source: C6B1503-01**								
Chloride	21.5	1.0	mg/L	10.00	14.3	72	80-120	0.6	20	QM-07
Nitrate as N	17.8	0.40	"	10.00	10.1	77	85-115	0.3	20	QM-07
Sulfate as SO4	47.1	0.5	"	10.00	46.2	9	80-120	0.08	20	QM-07
Batch C000516 - NO PREP				**Prepared: 02/22/16 Analyzed: 02/23/16**						
Blank (C000516-BLK1)										
Total Dissolved Solids (TDS)	ND	10.0	mg/L							
Duplicate (C000516-DUP1)		**Source: C6B1835-01**								
Total Dissolved Solids (TDS)	797	10.0	mg/L		797			0	10	

Exhibit 12

GeoAnalytical Laboratories, Inc.

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email: info@geoanalyticallab.com

Report # C6B1831 **Project: Linwood Discharge** **Date:** 03/01/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 02/18/16

Inorganic Chemistry - Quality Control
GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch C000539 - NO PREP				**Prepared: 02/23/16 Analyzed: 02/25/16**						
Blank (C000539-BLK1)										
Bicarbonate Alkalinity as CaCO3	ND	20.0	mg/L							
Carbonate Alkalinity as CaCO3	ND	20.0	"							
Hydroxide Alkalinity as CaCO3	ND	20.0	"							
Total Alkalinity as CaCO3	ND	20.0	"							
LCS (C000539-BS1)										
Total Alkalinity as CaCO3	39.0	20.0	mg/L	40.00		98	80-120			
LCS Dup (C000539-BSD1)										
Total Alkalinity as CaCO3	38.9	20.0	mg/L	40.00		97	80-120	0.4	10	
Matrix Spike (C000539-MS1)		**Source: C6B1825-01**								
Total Alkalinity as CaCO3	388	20.0	mg/L	40.00	353	88	80-120			
Matrix Spike Dup (C000539-MSD1)		**Source: C6B1825-01**								
Total Alkalinity as CaCO3	388	20.0	mg/L	40.00	353	86	80-120	0.2	20	
Batch C000551 - NONE				**Prepared & Analyzed: 02/25/16**						
Blank (C000551-BLK1)										
Calcium	ND	1.0	mg/L							
Magnesium	ND	1.0	"							
Sodium	ND	1.0	"							
LCS (C000551-BS1)										
Calcium	26.2	1.0	mg/L	25.00		105	80-120			
Magnesium	26.6	1.0	"	25.00		106	80-120			
Sodium	10.7	1.0	"	10.00		107	80-120			
LCS Dup (C000551-BSD1)										
Calcium	26.2	1.0	mg/L	25.00		105	80-120	0	20	
Magnesium	26.7	1.0	"	25.00		107	80-120	0.4	20	
Sodium	10.7	1.0	"	10.00		107	80-120	0	20	

GeoAnalytical Laboratories, Inc.

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Report # C6B1831 **Project: Linwood Discharge** **Date:** 03/01/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 02/18/16

Inorganic Chemistry - Quality Control

GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch C000551 - NONE				**Prepared & Analyzed: 02/25/16**						
Matrix Spike (C000551-MS1)		**Source: C6B1825-01**								
Calcium	164	1.0	mg/L	25.00	137	108	80-120			
Magnesium	68.0	1.0	"	25.00	40.0	112	80-120			
Sodium	95.4	1.0	"	10.00	84.0	114	80-120			
Matrix Spike Dup (C000551-MSD1)		**Source: C6B1825-01**								
Calcium	165	1.0	mg/L	25.00	137	112	80-120	0.6	20	
Magnesium	67.8	1.0	"	25.00	40.0	111	80-120	0.3	20	
Sodium	94.0	1.0	"	10.00	84.0	100	80-120	1	20	

GeoAnalytical Laboratories, Inc.

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email: info@geoanalyticallab.com

Report # C6B1831 **Project: Linwood Discharge** **Date:** 03/01/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 02/18/16

Microbiology - Quality Control
GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch C000510 - BIO			**Prepared: 02/18/16 Analyzed: 02/19/16**							
Blank (C000510-BLK1)										
E. Coli	Absent		NA							
Total Coliform	Absent		"							
Duplicate (C000510-DUP1)		**Source: C6B1839-01**								
E. Coli	Absent		NA		0.0				0	
Total Coliform	Absent		"		0.0				0	

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212

email: info@geoanalyticallab.com

Report # C6B1831 **Project: Linwood Discharge** **Date:** 03/01/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 02/18/16

Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
A	Absent
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
RL	Reporting Limit
NA	Not Applicable

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr
Turlock, CA 95380

Phone: (209) 669 0100
Fax: (209) 593 2212

Lab Report # 1615 18 51

Regulatory ☐ Yes ☐ No CC: ☐ Yes ☐ No

Regulator:

Phone: (209) 669-7919

Fax: (209) 250-1919

Original To: frontdesk@randjavila.com

C.C To:

Client: R & J Avila, Inc.

Address: 8119 Ellington Ave

City Hilmar Zip 95324

CHAIN OF CUSTODY

☐ EDF ☐ EDT

☐ FIELD LOGS

Project ID Linwood Discharge

Sampled By (Print Name) Rui Avila

(Signature) R. Avila

Date	Time	Sample type Grab	Sample type Comp	Matrix	Sample ID	Container Type	Container Size	No. Of Containers	Nitrate as N	TDS	E. Coli (P/A)	Total Coliform (P/A)	Ca, Mg, Na,	Bicarbonate	Carbonate	Sulfate	Chloride	Lab Use Only: Lab ID #	Lab Use Only: Preservative
2-18-16	10:35 Am	✓	DW		4600 W. Linwood		1L	1	✓	✓			✓	✓	✓	✓	✓	-01	
2-18-16	10:35 Am	✓	⊥		4600 W. Linwood		100ml	1			✓	✓							

Relinquished by (Signature)	Date	Time	Received by (Signature)	Date	Time
R. Avila	2-18-16	12:15 Pm	[illegible]	2-18-16	12:15
Relinquished by (Signature)	Date	Time	Received by (Signature)	Date	Time

Preservative: 1 4°C 2 HCL 3 NaOH 4 $Na_2S_2O_3$ 5 HNO_3 6 H_2SO_4 7 Other _____

Matrix: DW Drinking Water WW Waste Water HWW Hazardous Waste (Water) S Soil/Solid

Bailers _____ 55 Gallon Drums _____

Pump Truck ☐ Time Mileage

Turnaround Time ☐ Standard ☐ Silver Rush ☐ Gold Rush ☐ Platinum Rush ☐ Other

Approved By:

Exhibit 12

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # C6C3111 **Project: Linwood Discharge** **Date:** 04/01/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 03/31/16

CERTIFICATE OF ANALYSIS

Sampler: Rui Avila

Sample ID: 4200 W Linwood

Lab ID	Sample Date / Time	RL	Method	Analyte	Result	Units	Notes	Started
C6C3111-01	3/31/2016 12:15	1.0	200.7	Calcium	**100**	mg/L		04/01/16 11:12
		1.0		Magnesium	**33.5**	mg/L		"
		1.0		Potassium	**4.3**	mg/L		"
		1.0		Sodium	**102**	mg/L		"
		1.0	300.0	Chloride	**148**	mg/L		03/31/16 15:58
		0.40		Nitrate as N	**23.4**	mg/L		"
		0.5		Sulfate as SO4	**104**	mg/L		"
		10.0	SM 2540 C	Total Dissolved Solids (TDS)	**858**	mg/L		03/31/16 16:22
		24.4	SM2320B	Bicarbonate as HCO3	**445**	mg/L		03/31/16 15:02
		12.0		Carbonate as CO3	ND	mg/L		"
		6.8		Hydroxide as OH	ND	mg/L		"
		20.0		Total Alkalinity as CaCO3	**365**	mg/L		"
		NA	SM9223 (Colitag)	E. Coli	Absent	NA		03/31/16 14:20
		NA		Total Coliform	Absent	NA		"

Kanti Gandhi
Chemist

Donna Keller
Laboratory Director

Certification # 2585

Exhibit 12

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # C6C3111 **Project: Linwood Discharge** **Date:** 04/01/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 03/31/16

Inorganic Chemistry - Quality Control
GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch C000897 - NO PREP			**Prepared: 03/31/16 Analyzed: 04/01/16**							
Blank (C000897-BLK1)										
Total Alkalinity as CaCO3	ND	20.0	mg/L							
LCS (C000897-BS1)										
Total Alkalinity as CaCO3	38.8	20.0	mg/L	40.00		97	80-120			
LCS Dup (C000897-BSD1)										
Total Alkalinity as CaCO3	39.1	20.0	mg/L	40.00		98	80-120	0.6	10	
Matrix Spike (C000897-MS1)		**Source: C6C2801-01**								
Total Alkalinity as CaCO3	233	20.0	mg/L	40.00	200	84	80-120			
Matrix Spike Dup (C000897-MSD1)		**Source: C6C2801-01**								
Total Alkalinity as CaCO3	234	20.0	mg/L	40.00	200	86	80-120	0.3	20	
Batch C000901 - NO PREP			**Prepared: 03/31/16 Analyzed: 04/01/16**							
Blank (C000901-BLK1)										
Chloride	ND	1.0	mg/L							
Nitrate as N	ND	0.40	"							
Sulfate as SO4	ND	0.5	"							
LCS (C000901-BS1)										
Chloride	50.6	1.0	mg/L	50.00		101	80-120			
Nitrate as N	48.6	0.40	"	50.00		97	85-115			
Sulfate as SO4	53.2	0.5	"	50.00		106	80-120			
LCS Dup (C000901-BSD1)										
Chloride	50.5	1.0	mg/L	50.00		101	80-120	0.2	20	
Nitrate as N	48.6	0.40	"	50.00		97	85-115	0.006	20	
Sulfate as SO4	52.7	0.5	"	50.00		105	80-120	0.9	20	
Matrix Spike (C000901-MS1)		**Source: C6C3117-01**								
Chloride	38.7	1.0	mg/L	10.00	33.1	56	80-120			QM-07
Nitrate as N	13.6	0.40	"	10.00	3.81	98	85-115			
Sulfate as SO4	25.7	0.5	"	10.00	17.7	80	80-120			

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # C6C3111 **Project: Linwood Discharge** **Date:** 04/01/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 03/31/16

Inorganic Chemistry - Quality Control
GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch C000901 - NO PREP				**Prepared: 03/31/16 Analyzed: 04/01/16**						
Matrix Spike Dup (C000901-MSD1)		**Source: C6C3117-01**								
Chloride	38.7	1.0	mg/L	10.00	33.1	56	80-120	0.1	20	QM-07
Nitrate as N	13.6	0.40	"	10.00	3.81	98	85-115	0.2	20	
Sulfate as SO4	25.8	0.5	"	10.00	17.7	80	80-120	0.3	20	
Batch C000904 - NO PREP				**Prepared: 03/31/16 Analyzed: 04/01/16**						
Blank (C000904-BLK1)										
Total Dissolved Solids (TDS)	ND	10.0	mg/L							
Duplicate (C000904-DUP1)		**Source: C6C3118-01**								
Total Dissolved Solids (TDS)	649	10.0	mg/L		642			1	10	
Batch C000905 - NONE				**Prepared & Analyzed: 04/01/16**						
Blank (C000905-BLK1)										
Calcium	ND	1.0	mg/L							
Magnesium	ND	1.0	"							
Potassium	ND	1.0	"							
Sodium	ND	1.0	"							
LCS (C000905-BS1)										
Calcium	10.1	1.0	mg/L	10.00		101	80-120			
Magnesium	10.2	1.0	"	10.00		102	80-120			
Potassium	9.43	1.0	"	10.00		94	80-120			
Sodium	10.4	1.0	"	10.00		104	80-120			
LCS Dup (C000905-BSD1)										
Calcium	10.2	1.0	mg/L	10.00		102	80-120	0.4	20	
Magnesium	10.2	1.0	"	10.00		102	80-120	0.3	20	
Potassium	9.43	1.0	"	10.00		94	80-120	0.04	20	
Sodium	10.3	1.0	"	10.00		103	80-120	0.9	20	

GeoAnalytical Laboratories, Inc.

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email: info@geoanalyticallab.com

Report # C6C3111 **Project: Linwood Discharge** **Date:** 04/01/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 03/31/16

Inorganic Chemistry - Quality Control

GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch C000905 - NONE				**Prepared & Analyzed: 04/01/16**						
Matrix Spike (C000905-MS1)		**Source: C6C3109-01**								
Calcium	89.3	1.0	mg/L	10.00	79.6	97	80-120			
Magnesium	38.2	1.0	"	10.00	28.8	93	80-120			
Potassium	14.8	1.0	"	10.00	3.25	116	80-120			
Sodium	115	1.0	"	10.00	104	104	80-120			
Matrix Spike Dup (C000905-MSD1)		**Source: C6C3109-01**								
Calcium	88.0	1.0	mg/L	10.00	79.6	84	80-120	1	20	
Magnesium	38.1	1.0	"	10.00	28.8	92	80-120	0.3	20	
Potassium	14.8	1.0	"	10.00	3.25	116	80-120	0.1	20	
Sodium	115	1.0	"	10.00	104	109	80-120	0.4	20	

GeoAnalytical Laboratories, Inc.

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email: info@geoanalyticallab.com

Report # C6C3111 **Project: Linwood Discharge** **Date:** 04/01/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 03/31/16

Microbiology - Quality Control
GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch C000900 - BIO				**Prepared: 03/31/16 Analyzed: 04/01/16**						
Blank (C000900-BLK1)										
E. Coli	Absent		NA							
Total Coliform	Absent		"							
Duplicate (C000900-DUP1)		**Source: C6C3110-01**								
E. Coli	Absent		NA		0.0				0	
Total Coliform	Absent		"		0.0				0	
Duplicate (C000900-DUP2)		**Source: C6C3107-01**								
E. Coli	Absent		NA		0.0				0	
Total Coliform	Absent		"		0.0				0	

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # C6C3111 **Project: Linwood Discharge** **Date:** 04/01/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 03/31/16

Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
A	Absent
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
RL	Reporting Limit
NA	Not Applicable

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr
Turlock, CA 95380

Phone: (209) 669 0100
Fax: (209) 593 2212

Lab Report # C63111

Regulatory ☐ Yes ☐ No CC: ☐ Yes ☐ No

Regulator:

Phone: (209) 669-7919

Fax: (209) 250-1919

Original To: frontdesk@randjavila.com

C.C To:

Client: R & J Avila, Inc.

Address: 8119 Ellington Ave

City Hilmar Zip 95324

CHAIN OF CUSTODY

☐ EDF ☐ EDT

☐ FIELD LOGS

Project ID Linwood Discharge

Sampled By (Print Name) Rui Avila

(Signature) R. Avila

Date	Time	Sample type Grab	Sample type Comp	Matrix	Sample ID	Container Type	Container Size	No. Of Containers	Nitrate as N	TDS	E. Coli (P/A)	Total Coliform (P/A)	Ca, Mg, Na, K	Bicarbonate	Carbonate	Sulfate	Chloride	Lab Use Only: Lab ID #	Lab Use Only: Preservative
3-31-16	12:15 pm	✓			4200 W. Linwood		1L	1	✓	✓			✓	✓	✓	✓	✓		
3-31-16	12:15 pm	✓			4200 W. Linwood		100ml	1			✓	✓						201	

5°C

Relinquished by (Signature)	Date	Time	Received by (Signature)	Date	Time
[signature]	3-31-16	1:40	[signature]	3-31-16	1:40
Relinquished by (Signature)	Date	Time	Received by (Signature)	Date	Time

Preservative: 1 4°C 2 HCL 3 NaOH 4 $Na_2S_2O_3$ 5 HNO_3 6 H_2SO_4 7 Other

Matrix: DW Drinking Water WW Waste Water HWW Hazardous Waste (Water) S Soil/Solid

Bailers 55 Gallon Drums

Pump Truck ☐ Time Mileage

Turnaround Time ☐ Standard ☐ Silver Rush ☐ Gold Rush ☐ Platinum Rush ☐ Other

Approved By:

Exhibit 12

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # C6C3110 **Project: Linwood Discharge** **Date:** 04/01/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 03/31/16

CERTIFICATE OF ANALYSIS

Sampler: Rui Avila

Sample ID: 3928 W Linwood

Lab ID	Sample Date / Time	RL	Method	Analyte	Result	Units	Notes	Started
C6C3110-01	3/31/2016 12:40	1.0	200.7	Calcium	**69**	mg/L		04/01/16 11:12
		1.0		Magnesium	**22.9**	mg/L		"
		1.0		Potassium	**3.4**	mg/L		"
		1.0		Sodium	**57.6**	mg/L		"
		1.0	300.0	Chloride	**48.6**	mg/L		03/31/16 15:58
		0.40		Nitrate as N	**22.8**	mg/L		"
		0.5		Sulfate as SO4	**63.0**	mg/L		"
		10.0	SM 2540 C	Total Dissolved Solids (TDS)	**594**	mg/L		03/31/16 16:22
		24.4	SM2320B	Bicarbonate as HCO3	**315**	mg/L		03/31/16 15:02
		12.0		Carbonate as CO3	ND	mg/L		"
		6.8		Hydroxide as OH	ND	mg/L		"
		20.0		Total Alkalinity as CaCO3	**258**	mg/L		"
		NA	SM9223 (Colitag)	E. Coli	Absent	NA		03/31/16 14:20
		NA		Total Coliform	Absent	NA		"

Kanti Gandhi KG
Kanti Gandhi
Chemist

Donna Keller
Laboratory Director

Certification # 2585

Exhibit 12

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # C6C3110 **Project: Linwood Discharge** **Date:** 04/01/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 03/31/16

Inorganic Chemistry - Quality Control
GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch C000897 - NO PREP				**Prepared: 03/31/16 Analyzed: 04/01/16**						
Blank (C000897-BLK1)										
Total Alkalinity as CaCO3	ND	20.0	mg/L							
LCS (C000897-BS1)										
Total Alkalinity as CaCO3	38.8	20.0	mg/L	40.00		97	80-120			
LCS Dup (C000897-BSD1)										
Total Alkalinity as CaCO3	39.1	20.0	mg/L	40.00		98	80-120	0.6	10	
Matrix Spike (C000897-MS1)		**Source: C6C2801-01**								
Total Alkalinity as CaCO3	233	20.0	mg/L	40.00	200	84	80-120			
Matrix Spike Dup (C000897-MSD1)		**Source: C6C2801-01**								
Total Alkalinity as CaCO3	234	20.0	mg/L	40.00	200	86	80-120	0.3	20	
Batch C000901 - NO PREP				**Prepared: 03/31/16 Analyzed: 04/01/16**						
Blank (C000901-BLK1)										
Chloride	ND	1.0	mg/L							
Nitrate as N	ND	0.40	"							
Sulfate as SO4	ND	0.5	"							
LCS (C000901-BS1)										
Chloride	50.6	1.0	mg/L	50.00		101	80-120			
Nitrate as N	48.6	0.40	"	50.00		97	85-115			
Sulfate as SO4	53.2	0.5	"	50.00		106	80-120			
LCS Dup (C000901-BSD1)										
Chloride	50.5	1.0	mg/L	50.00		101	80-120	0.2	20	
Nitrate as N	48.6	0.40	"	50.00		97	85-115	0.006	20	
Sulfate as SO4	52.7	0.5	"	50.00		105	80-120	0.9	20	
Matrix Spike (C000901-MS1)		**Source: C6C3117-01**								
Chloride	38.7	1.0	mg/L	10.00	33.1	56	80-120			QM-07
Nitrate as N	13.6	0.40	"	10.00	3.81	98	85-115			
Sulfate as SO4	25.7	0.5	"	10.00	17.7	80	80-120			

GeoAnalytical Laboratories, Inc.

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Report # C6C3110 **Project: Linwood Discharge** **Date:** 04/01/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 03/31/16

Inorganic Chemistry - Quality Control
GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch C000901 - NO PREP				**Prepared: 03/31/16 Analyzed: 04/01/16**						
Matrix Spike Dup (C000901-MSD1)		**Source: C6C3117-01**								
Chloride	38.7	1.0	mg/L	10.00	33.1	56	80-120	0.1	20	QM-07
Nitrate as N	13.6	0.40	"	10.00	3.81	98	85-115	0.2	20	
Sulfate as SO4	25.8	0.5	"	10.00	17.7	80	80-120	0.3	20	
Batch C000904 - NO PREP				**Prepared: 03/31/16 Analyzed: 04/01/16**						
Blank (C000904-BLK1)										
Total Dissolved Solids (TDS)	ND	10.0	mg/L							
Duplicate (C000904-DUP1)		**Source: C6C3118-01**								
Total Dissolved Solids (TDS)	649	10.0	mg/L		642			1	10	
Batch C000905 - NONE				**Prepared & Analyzed: 04/01/16**						
Blank (C000905-BLK1)										
Calcium	ND	1.0	mg/L							
Magnesium	ND	1.0	"							
Potassium	ND	1.0	"							
Sodium	ND	1.0	"							
LCS (C000905-BS1)										
Calcium	10.1	1.0	mg/L	10.00		101	80-120			
Magnesium	10.2	1.0	"	10.00		102	80-120			
Potassium	9.43	1.0	"	10.00		94	80-120			
Sodium	10.4	1.0	"	10.00		104	80-120			
LCS Dup (C000905-BSD1)										
Calcium	10.2	1.0	mg/L	10.00		102	80-120	0.4	20	
Magnesium	10.2	1.0	"	10.00		102	80-120	0.3	20	
Potassium	9.43	1.0	"	10.00		94	80-120	0.04	20	
Sodium	10.3	1.0	"	10.00		103	80-120	0.9	20	

GeoAnalytical Laboratories, Inc.

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Report # C6C3110 **Project: Linwood Discharge** **Date:** 04/01/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 03/31/16

Inorganic Chemistry - Quality Control
GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch C000905 - NONE				**Prepared & Analyzed: 04/01/16**						
Matrix Spike (C000905-MS1)		**Source: C6C3109-01**								
Calcium	89.3	1.0	mg/L	10.00	79.6	97	80-120			
Magnesium	38.2	1.0	"	10.00	28.8	93	80-120			
Potassium	14.8	1.0	"	10.00	3.25	116	80-120			
Sodium	115	1.0	"	10.00	104	104	80-120			
Matrix Spike Dup (C000905-MSD1)		**Source: C6C3109-01**								
Calcium	88.0	1.0	mg/L	10.00	79.6	84	80-120	1	20	
Magnesium	38.1	1.0	"	10.00	28.8	92	80-120	0.3	20	
Potassium	14.8	1.0	"	10.00	3.25	116	80-120	0.1	20	
Sodium	115	1.0	"	10.00	104	109	80-120	0.4	20	

GeoAnalytical Laboratories, Inc.

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Report # C6C3110 **Project: Linwood Discharge** **Date:** 04/01/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 03/31/16

Microbiology - Quality Control
GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch C000900 - BIO				**Prepared: 03/31/16 Analyzed: 04/01/16**						
Blank (C000900-BLK1)										
E. Coli	Absent		NA							
Total Coliform	Absent		"							
Duplicate (C000900-DUP1)		**Source: C6C3110-01**								
E. Coli	Absent		NA		Absent				0	
Total Coliform	Absent		"		Absent				0	
Duplicate (C000900-DUP2)		**Source: C6C3107-01**								
E. Coli	Absent		NA		0.0				0	
Total Coliform	Absent		"		0.0				0	

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212

email: info@geoanalyticallab.com

Report # C6C3110 **Project: Linwood Discharge** **Date:** 04/01/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 03/31/16

Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
A	Absent
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
RL	Reporting Limit
NA	Not Applicable

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr
Turlock, CA 95380

Phone: (209) 669 0100
Fax: (209) 593 2212

Lab Report # C6C3110

Regulatory ☐ Yes ☐ No CC: ☐ Yes ☐ No

Regulator:

Phone: (209) 669-7919

Fax: (209) 250-1919

Original To: frontdesk@randjavila.com

C.C To:

Client: R & J Avila, Inc.

Address: 8119 Ellington Ave

City Hilmar Zip 95324

CHAIN OF CUSTODY

☐ EDF ☐ EDT

☐ FIELD LOGS

Project ID Linwood Discharge

Sampled By (Print Name) Rui Avila

(Signature) R. Avila

Date	Time	Sample type Grab	Sample type Comp	Matrix	Sample ID	Container Type	Container Size	No. Of Containers	Nitrate as N	TDS	E. Coli (P/A)	Total Coliform (P/A)	Ca, Mg, Na, K	Bicarbonate	Carbonate	Sulfate	Chloride	Lab Use Only: Lab ID #	Lab Use Only: Preservative
3-31-16	12:40pm	✓			3928 W. Linwood		1L	1	✓	✓			✓	✓	✓	✓	✓		
3-31-16	12:40pm	✓			3928 W. Linwood		100ml	1			✓	✓							

5°C

Relinquished by (Signature)	Date	Time	Received by (Signature)	Date	Time
[signature]	3-31-16	1:40	[signature]	3-31-16	1:40
Relinquished by (Signature)	Date	Time	Received by (Signature)	Date	Time

Preservative: 1 4°C 2 HCL 3 NaOH 4 $Na_2S_2O_3$ 5 HNO_3 6 H_2SO_4 7 Other

Matrix: DW Drinking Water WW Waste Water HWW Hazardous Waste (Water) S Soil/Solid

Bailers _____ 55 Gallon Drums _____ Pump Truck ☐ Time Mileage

Turnaround Time ☐ Standard ☐ Silver Rush ☐ Gold Rush ☐ Platinum Rush ☐ Other

Approved By:

Exhibit 12

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # C6C3109 **Project: Linwood Discharge** **Date:** 04/01/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 03/31/16

CERTIFICATE OF ANALYSIS

Sampler: Rui Avila

Sample ID: 4530 W Linwood

Lab ID	Sample Date / Time	RL	Method	Analyte	Result	Units	Notes	Started
C6C3109-01	3/31/2016 09:55	1.0	200.7	Calcium	**80**	mg/L		04/01/16 11:12
		1.0		Magnesium	**28.8**	mg/L		"
		1.0		Potassium	**3.2**	mg/L		"
		1.0		Sodium	**104**	mg/L		"
		5.0	300.0	Chloride	**77.9**	mg/L		03/31/16 15:58
		0.40		Nitrate as N	**18.3**	mg/L		"
		2.5		Sulfate as SO4	**57.6**	mg/L		"
		10.0	SM 2540 C	Total Dissolved Solids (TDS)	**720**	mg/L		03/31/16 16:22
		24.4	SM2320B	Bicarbonate as HCO3	**928**	mg/L		03/31/16 15:02
		12.0		Carbonate as CO3	ND	mg/L		"
		6.8		Hydroxide as OH	ND	mg/L		"
		20.0		Total Alkalinity as CaCO3	**761**	mg/L		"
		NA	SM9223 (Colitag)	E. Coli	Absent	NA		03/31/16 14:20
		NA		Total Coliform	Absent	NA		"

Kanti Gandhi
Chemist

Donna Keller
Laboratory Director

Certification # 2585

Exhibit 12

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # C6C3109 **Project: Linwood Discharge** **Date:** 04/01/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 03/31/16

Inorganic Chemistry - Quality Control

GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch C000897 - NO PREP				**Prepared: 03/31/16 Analyzed: 04/01/16**						
Blank (C000897-BLK1)										
Total Alkalinity as CaCO3	ND	20.0	mg/L							
LCS (C000897-BS1)										
Total Alkalinity as CaCO3	38.8	20.0	mg/L	40.00		97	80-120			
LCS Dup (C000897-BSD1)										
Total Alkalinity as CaCO3	39.1	20.0	mg/L	40.00		98	80-120	0.6	10	
Matrix Spike (C000897-MS1)		**Source: C6C2801-01**								
Total Alkalinity as CaCO3	233	20.0	mg/L	40.00	200	84	80-120			
Matrix Spike Dup (C000897-MSD1)		**Source: C6C2801-01**								
Total Alkalinity as CaCO3	234	20.0	mg/L	40.00	200	86	80-120	0.3	20	
Batch C000901 - NO PREP				**Prepared: 03/31/16 Analyzed: 04/01/16**						
Blank (C000901-BLK1)										
Chloride	ND	1.0	mg/L							
Nitrate as N	ND	0.40	"							
Sulfate as SO4	ND	0.5	"							
LCS (C000901-BS1)										
Chloride	50.6	1.0	mg/L	50.00		101	80-120			
Nitrate as N	48.6	0.40	"	50.00		97	85-115			
Sulfate as SO4	53.2	0.5	"	50.00		106	80-120			
LCS Dup (C000901-BSD1)										
Chloride	50.5	1.0	mg/L	50.00		101	80-120	0.2	20	
Nitrate as N	48.6	0.40	"	50.00		97	85-115	0.006	20	
Sulfate as SO4	52.7	0.5	"	50.00		105	80-120	0.9	20	
Matrix Spike (C000901-MS1)		**Source: C6C3117-01**								
Chloride	38.7	1.0	mg/L	10.00	33.1	56	80-120			QM-07
Nitrate as N	13.6	0.40	"	10.00	3.81	98	85-115			
Sulfate as SO4	25.7	0.5	"	10.00	17.7	80	80-120			

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # C6C3109 **Project: Linwood Discharge** **Date:** 04/01/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 03/31/16

Inorganic Chemistry - Quality Control
GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch C000901 - NO PREP				**Prepared: 03/31/16 Analyzed: 04/01/16**						
Matrix Spike Dup (C000901-MSD1)		**Source: C6C3117-01**								
Chloride	38.7	1.0	mg/L	10.00	33.1	56	80-120	0.1	20	QM-07
Nitrate as N	13.6	0.40	"	10.00	3.81	98	85-115	0.2	20	
Sulfate as SO4	25.8	0.5	"	10.00	17.7	80	80-120	0.3	20	
Batch C000904 - NO PREP				**Prepared: 03/31/16 Analyzed: 04/01/16**						
Blank (C000904-BLK1)										
Total Dissolved Solids (TDS)	ND	10.0	mg/L							
Duplicate (C000904-DUP1)		**Source: C6C3118-01**								
Total Dissolved Solids (TDS)	649	10.0	mg/L		642			1	10	
Batch C000905 - NONE				**Prepared & Analyzed: 04/01/16**						
Blank (C000905-BLK1)										
Calcium	ND	1.0	mg/L							
Magnesium	ND	1.0	"							
Potassium	ND	1.0	"							
Sodium	ND	1.0	"							
LCS (C000905-BS1)										
Calcium	10.1	1.0	mg/L	10.00		101	80-120			
Magnesium	10.2	1.0	"	10.00		102	80-120			
Potassium	9.43	1.0	"	10.00		94	80-120			
Sodium	10.4	1.0	"	10.00		104	80-120			
LCS Dup (C000905-BSD1)										
Calcium	10.2	1.0	mg/L	10.00		102	80-120	0.4	20	
Magnesium	10.2	1.0	"	10.00		102	80-120	0.3	20	
Potassium	9.43	1.0	"	10.00		94	80-120	0.04	20	
Sodium	10.3	1.0	"	10.00		103	80-120	0.9	20	

GeoAnalytical Laboratories, Inc.

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email: info@geoanalyticallab.com

Report # C6C3109 **Project: Linwood Discharge** **Date:** 04/01/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 03/31/16

Inorganic Chemistry - Quality Control

GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch C000905 - NONE				**Prepared & Analyzed: 04/01/16**						
Matrix Spike (C000905-MS1)		**Source: C6C3109-01**								
Calcium	89.3	1.0	mg/L	10.00	79.6	97	80-120			
Magnesium	38.2	1.0	"	10.00	28.8	93	80-120			
Potassium	14.8	1.0	"	10.00	3.25	116	80-120			
Sodium	115	1.0	"	10.00	104	104	80-120			
Matrix Spike Dup (C000905-MSD1)		**Source: C6C3109-01**								
Calcium	88.0	1.0	mg/L	10.00	79.6	84	80-120	1	20	
Magnesium	38.1	1.0	"	10.00	28.8	92	80-120	0.3	20	
Potassium	14.8	1.0	"	10.00	3.25	116	80-120	0.1	20	
Sodium	115	1.0	"	10.00	104	109	80-120	0.4	20	

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # C6C3109 **Project: Linwood Discharge** **Date:** 04/01/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 03/31/16

Microbiology - Quality Control
GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch C000900 - BIO				**Prepared: 03/31/16 Analyzed: 04/01/16**						
Blank (C000900-BLK1)										
E. Coli	Absent		NA							
Total Coliform	Absent		"							
Duplicate (C000900-DUP1)		**Source: C6C3110-01**								
E. Coli	Absent		NA		0.0				0	
Total Coliform	Absent		"		0.0				0	
Duplicate (C000900-DUP2)		**Source: C6C3107-01**								
E. Coli	Absent		NA		0.0				0	
Total Coliform	Absent		"		0.0				0	

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # C6C3109 **Project: Linwood Discharge** **Date:** 04/01/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 03/31/16

Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
A	Absent
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
RL	Reporting Limit
NA	Not Applicable

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr
Turlock, CA 95380
Phone: (209) 669 0100
Fax: (209) 593 2212

Lab Report # C6C3109
Regulatory ☐ Yes ☐ No CC: ☐ Yes ☐ No
Regulator:
Phone: (209) 669-7919
Fax: (209) 250-1919
Original To: frontdesk@randjavila.com
C.C To:

Client: R & J Avila, Inc.
Address: 8119 Ellington Ave
City Hilmar Zip 95324

CHAIN OF CUSTODY

☐ EDF ☐ EDT
☐ FIELD LOGS

Project ID Linwood Discharge

Sampled By (Print Name) Rui Avila
(Signature) R. Avila

Date	Time	Sample type Grab	Sample type Comp	Matrix	Sample ID	Container Type	Container Size	No. Of Containers	Nitrate as N	TDS	E. Coli (P/A)	Total Coliform (P/A)	Ca, Mg, Na, K	Bicarbonate	Carbonate	Sulfate	Chloride	Lab Use Only: Lab ID #	Lab Use Only: Preservative
3-31-16	9:55am	✓			4530 W. Linwood		1L	1	✓	✓			✓	✓	✓	✓	✓	301	
3-31-16	9:55am	✓			4530 W. Linwood		100ml	1			✓	✓							

5°C

Relinquished by (Signature)	Date	Time	Received by (Signature)	Date	Time
[signature]	3-31-16	1:40	[signature]	3-31-16	1:40
Relinquished by (Signature)	Date	Time	Received by (Signature)	Date	Time

Preservative: 1 4°C 2 HCL 3 NaOH 4 $Na_2S_2O_3$ 5 HNO_3 6 H_2SO_4 7 Other

Matrix: DW Drinking Water WW Waste Water HWW Hazardous Waste (Water) S Soil/Solid

Bailers _____ 55 Gallon Drums _____ Pump Truck ☐ Time Mileage

Turnaround Time ☐ Standard ☐ Silver Rush ☐ Gold Rush ☐ Platinum Rush ☐ Other

Approved By:

Exhibit 12

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # C6C3108 **Project: Linwood Discharge** **Date:** 04/01/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 03/31/16

CERTIFICATE OF ANALYSIS

Sampler: Rui Avila

Sample ID: 4500 W Linwood

Lab ID	Sample Date / Time	RL	Method	Analyte	Result	Units	Notes	Started
C6C3108-01	3/31/2016 11:10	1.0	200.7	Calcium	**21**	mg/L		04/01/16 11:14
		1.0		Magnesium	**4.8**	mg/L		"
		1.0		Potassium	**2.3**	mg/L		"
		1.0		Sodium	**30.4**	mg/L		"
		1.0	300.0	Chloride	**25.6**	mg/L		03/31/16 15:58
		0.40		Nitrate as N	**2.26**	mg/L		"
		0.5		Sulfate as SO4	**5.7**	mg/L		"
		10.0	SM 2540 C	Total Dissolved Solids (TDS)	**203**	mg/L		03/31/16 16:22
		24.4	SM2320B	Bicarbonate as HCO3	**125**	mg/L		03/31/16 15:02
		12.0		Carbonate as CO3	ND	mg/L		"
		6.8		Hydroxide as OH	ND	mg/L		"
		20.0		Total Alkalinity as CaCO3	**102**	mg/L		"
		NA	SM9223 (Colitag)	E. Coli	Absent	NA		03/31/16 14:20
		NA		Total Coliform	Absent	NA		"

Kanti Gandhi
Chemist

Donna Keller
Laboratory Director

Certification # 2585

Exhibit 12

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # C6C3108 **Project: Linwood Discharge** **Date:** 04/01/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 03/31/16

Inorganic Chemistry - Quality Control
GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch C000897 - NO PREP				**Prepared: 03/31/16 Analyzed: 04/01/16**						
Blank (C000897-BLK1)										
Total Alkalinity as CaCO3	ND	20.0	mg/L							
LCS (C000897-BS1)										
Total Alkalinity as CaCO3	38.8	20.0	mg/L	40.00		97	80-120			
LCS Dup (C000897-BSD1)										
Total Alkalinity as CaCO3	39.1	20.0	mg/L	40.00		98	80-120	0.6	10	
Matrix Spike (C000897-MS1)		**Source: C6C2801-01**								
Total Alkalinity as CaCO3	233	20.0	mg/L	40.00	200	84	80-120			
Matrix Spike Dup (C000897-MSD1)		**Source: C6C2801-01**								
Total Alkalinity as CaCO3	234	20.0	mg/L	40.00	200	86	80-120	0.3	20	
Batch C000901 - NO PREP				**Prepared: 03/31/16 Analyzed: 04/01/16**						
Blank (C000901-BLK1)										
Chloride	ND	1.0	mg/L							
Nitrate as N	ND	0.40	"							
Sulfate as SO4	ND	0.5	"							
LCS (C000901-BS1)										
Chloride	50.6	1.0	mg/L	50.00		101	80-120			
Nitrate as N	48.6	0.40	"	50.00		97	85-115			
Sulfate as SO4	53.2	0.5	"	50.00		106	80-120			
LCS Dup (C000901-BSD1)										
Chloride	50.5	1.0	mg/L	50.00		101	80-120	0.2	20	
Nitrate as N	48.6	0.40	"	50.00		97	85-115	0.006	20	
Sulfate as SO4	52.7	0.5	"	50.00		105	80-120	0.9	20	
Matrix Spike (C000901-MS1)		**Source: C6C3117-01**								
Chloride	38.7	1.0	mg/L	10.00	33.1	56	80-120			QM-07
Nitrate as N	13.6	0.40	"	10.00	3.81	98	85-115			
Sulfate as SO4	25.7	0.5	"	10.00	17.7	80	80-120			

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # C6C3108 **Project: Linwood Discharge** **Date:** 04/01/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 03/31/16

Inorganic Chemistry - Quality Control
GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch C000901 - NO PREP				**Prepared: 03/31/16 Analyzed: 04/01/16**						
Matrix Spike Dup (C000901-MSD1)		**Source: C6C3117-01**								
Chloride	38.7	1.0	mg/L	10.00	33.1	56	80-120	0.1	20	QM-07
Nitrate as N	13.6	0.40	"	10.00	3.81	98	85-115	0.2	20	
Sulfate as SO4	25.8	0.5	"	10.00	17.7	80	80-120	0.3	20	
Batch C000904 - NO PREP				**Prepared: 03/31/16 Analyzed: 04/01/16**						
Blank (C000904-BLK1)										
Total Dissolved Solids (TDS)	ND	10.0	mg/L							
Duplicate (C000904-DUP1)		**Source: C6C3118-01**								
Total Dissolved Solids (TDS)	649	10.0	mg/L		642			1	10	
Batch C000906 - NONE				**Prepared & Analyzed: 04/01/16**						
Blank (C000906-BLK1)										
Calcium	ND	1.0	mg/L							
Magnesium	ND	1.0	"							
Potassium	ND	1.0	"							
Sodium	ND	1.0	"							
LCS (C000906-BS1)										
Calcium	10.1	1.0	mg/L	10.00		101	80-120			
Magnesium	10.2	1.0	"	10.00		102	80-120			
Potassium	9.43	1.0	"	10.00		94	80-120			
Sodium	10.4	1.0	"	10.00		104	80-120			
LCS Dup (C000906-BSD1)										
Calcium	10.2	1.0	mg/L	10.00		102	80-120	0.4	20	
Magnesium	10.2	1.0	"	10.00		102	80-120	0.3	20	
Potassium	9.43	1.0	"	10.00		94	80-120	0.04	20	
Sodium	10.3	1.0	"	10.00		103	80-120	0.9	20	

GeoAnalytical Laboratories, Inc.

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email: info@geoanalyticallab.com

Report # C6C3108 **Project: Linwood Discharge** **Date:** 04/01/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 03/31/16

Inorganic Chemistry - Quality Control

GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch C000906 - NONE				**Prepared & Analyzed: 04/01/16**						
Matrix Spike (C000906-MS1)		**Source: C6C3108-01**								
Calcium	30.4	1.0	mg/L	10.00	21.0	94	80-120			
Magnesium	14.5	1.0	"	10.00	4.77	98	80-120			
Potassium	11.8	1.0	"	10.00	2.34	94	80-120			
Sodium	40.1	1.0	"	10.00	30.4	97	80-120			
Matrix Spike Dup (C000906-MSD1)		**Source: C6C3108-01**								
Calcium	30.4	1.0	mg/L	10.00	21.0	94	80-120	0.1	20	
Magnesium	14.6	1.0	"	10.00	4.77	98	80-120	0.3	20	
Potassium	11.9	1.0	"	10.00	2.34	95	80-120	0.8	20	
Sodium	40.1	1.0	"	10.00	30.4	97	80-120	0.2	20	

GeoAnalytical Laboratories, Inc.

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email: info@geoanalyticallab.com

Report # C6C3108 **Project: Linwood Discharge** **Date:** 04/01/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 03/31/16

Microbiology - Quality Control
GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch C000900 - BIO				**Prepared: 03/31/16 Analyzed: 04/01/16**						
Blank (C000900-BLK1)										
E. Coli	Absent		NA							
Total Coliform	Absent		"							
Duplicate (C000900-DUP1)		**Source: C6C3110-01**								
E. Coli	Absent		NA		0.0				0	
Total Coliform	Absent		"		0.0				0	
Duplicate (C000900-DUP2)		**Source: C6C3107-01**								
E. Coli	Absent		NA		0.0				0	
Total Coliform	Absent		"		0.0				0	

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212

email: info@geoanalyticallab.com

Report # C6C3108 **Project: Linwood Discharge** **Date:** 04/01/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 03/31/16

Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
A	Absent
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
RL	Reporting Limit
NA	Not Applicable

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr
Turlock, CA 95380
Phone: (209) 669 0100
Fax: (209) 593 2212

Lab Report # C6C3108
Regulatory ☐ Yes ☐ No CC: ☐ Yes ☐ No
Regulator:
Phone: (209) 669-7919
Fax: (209) 250-1919
Original To: frontdesk@randjavila.com
C.C To:

Client: R & J Avila, Inc.
Address: 8119 Ellington Ave
City Hilmar Zip 95324

CHAIN OF CUSTODY

☐ EDF ☐ EDT
☐ FIELD LOGS

Project ID Linwood Discharge

Sampled By (Print Name) Rui Avila
(Signature) R. Avila

Date	Time	Sample type Grab	Sample type Comp	Matrix	Sample ID	Container Type	Container Size	No. Of Containers	Nitrate as N	TDS	E. Coli (P/A)	Total Coliform (P/A)	Ca, Mg, Na, K	Bicarbonate	Carbonate	Sulfate	Chloride	Lab Use Only: Lab ID #	Lab Use Only: Preservative
3-31-16	11:10am	✓			4500 W. Linwood		1L	1	✓	✓			✓	✓	✓	✓	✓	001	
3-31-16	11:10am	✓			4500 W. Linwood		100ml	1			✓	✓							

3°C

Relinquished by (Signature)	Date	Time	Received by (Signature)	Date	Time
[signature]	5-31-16	1:46pm	[signature]	3-31-16	1:40
Relinquished by (Signature)	Date	Time	Received by (Signature)	Date	Time

Preservative: 1 4°C 2 HCL 3 NaOH 4 $Na_2S_2O_3$ 5 HNO_3 6 H_2SO_4 7 Other _____

Matrix: DW Drinking Water WW Waste Water HWW Hazardous Waste (Water) S Soil/Solid

Bailers _____ 55 Gallon Drums _____ Pump Truck ☐ Time Mileage

Turnaround Time ☐ Standard ☐ Silver Rush ☐ Gold Rush ☐ Platinum Rush ☐ Other

Approved By: _____

Exhibit 12

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # C6C3118 **Project: Linwood Discharge** **Date:** 04/01/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 03/31/16

CERTIFICATE OF ANALYSIS

Sampler: Rui Avila

Sample ID: 4600 W Linwood

Lab ID	Sample Date / Time	RL	Method	Analyte	Result	Units	Notes	Started
C6C3118-01	3/31/2016 09:40	1.0	200.7	Calcium	**80**	mg/L		04/01/16 11:12
		1.0		Magnesium	**28.1**	mg/L		"
		1.0		Potassium	**3.0**	mg/L		"
		1.0		Sodium	**74.3**	mg/L		"
		1.0	300.0	Chloride	**62.6**	mg/L		03/31/16 15:58
		0.40		Nitrate as N	**12.1**	mg/L		"
		0.5		Sulfate as SO4	**45.0**	mg/L		"
		10.0	SM 2540 C	Total Dissolved Solids (TDS)	**642**	mg/L		03/31/16 16:22
		24.4	SM2320B	Bicarbonate as HCO3	**433**	mg/L		03/31/16 15:02
		12.0		Carbonate as CO3	ND	mg/L		"
		6.8		Hydroxide as OH	ND	mg/L		"
		20.0		Total Alkalinity as CaCO3	**355**	mg/L		"
		NA	SM9223 (Colitag)	E. Coli	Absent	NA		03/31/16 14:20
		NA		Total Coliform	Absent	NA		"

Kanti Gandhi
Chemist

Donna Keller
Laboratory Director

Certification # 2585

Exhibit 12

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # C6C3118 **Project: Linwood Discharge** **Date:** 04/01/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 03/31/16

Inorganic Chemistry - Quality Control

GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch C000897 - NO PREP				**Prepared: 03/31/16 Analyzed: 04/01/16**						
Blank (C000897-BLK1)										
Total Alkalinity as CaCO3	ND	20.0	mg/L							
LCS (C000897-BS1)										
Total Alkalinity as CaCO3	38.8	20.0	mg/L	40.00		97	80-120			
LCS Dup (C000897-BSD1)										
Total Alkalinity as CaCO3	39.1	20.0	mg/L	40.00		98	80-120	0.6	10	
Matrix Spike (C000897-MS1)		**Source: C6C2801-01**								
Total Alkalinity as CaCO3	233	20.0	mg/L	40.00	200	84	80-120			
Matrix Spike Dup (C000897-MSD1)		**Source: C6C2801-01**								
Total Alkalinity as CaCO3	234	20.0	mg/L	40.00	200	86	80-120	0.3	20	
Batch C000901 - NO PREP				**Prepared: 03/31/16 Analyzed: 04/01/16**						
Blank (C000901-BLK1)										
Chloride	ND	1.0	mg/L							
Nitrate as N	ND	0.40	"							
Sulfate as SO4	ND	0.5	"							
LCS (C000901-BS1)										
Chloride	50.6	1.0	mg/L	50.00		101	80-120			
Nitrate as N	48.6	0.40	"	50.00		97	85-115			
Sulfate as SO4	53.2	0.5	"	50.00		106	80-120			
LCS Dup (C000901-BSD1)										
Chloride	50.5	1.0	mg/L	50.00		101	80-120	0.2	20	
Nitrate as N	48.6	0.40	"	50.00		97	85-115	0.006	20	
Sulfate as SO4	52.7	0.5	"	50.00		105	80-120	0.9	20	
Matrix Spike (C000901-MS1)		**Source: C6C3117-01**								
Chloride	38.7	1.0	mg/L	10.00	33.1	56	80-120			QM-07
Nitrate as N	13.6	0.40	"	10.00	3.81	98	85-115			
Sulfate as SO4	25.7	0.5	"	10.00	17.7	80	80-120			

GeoAnalytical Laboratories, Inc.

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Report # C6C3118 **Project: Linwood Discharge** **Date:** 04/01/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 03/31/16

Inorganic Chemistry - Quality Control
GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch C000901 - NO PREP				**Prepared: 03/31/16 Analyzed: 04/01/16**						
Matrix Spike Dup (C000901-MSD1)		**Source: C6C3117-01**								
Chloride	38.7	1.0	mg/L	10.00	33.1	56	80-120	0.1	20	QM-07
Nitrate as N	13.6	0.40	"	10.00	3.81	98	85-115	0.2	20	
Sulfate as SO4	25.8	0.5	"	10.00	17.7	80	80-120	0.3	20	
Batch C000904 - NO PREP				**Prepared: 03/31/16 Analyzed: 04/01/16**						
Blank (C000904-BLK1)										
Total Dissolved Solids (TDS)	ND	10.0	mg/L							
Duplicate (C000904-DUP1)		**Source: C6C3118-01**								
Total Dissolved Solids (TDS)	649	10.0	mg/L		642			1	10	
Batch C000905 - NONE				**Prepared & Analyzed: 04/01/16**						
Blank (C000905-BLK1)										
Calcium	ND	1.0	mg/L							
Magnesium	ND	1.0	"							
Potassium	ND	1.0	"							
Sodium	ND	1.0	"							
LCS (C000905-BS1)										
Calcium	10.1	1.0	mg/L	10.00		101	80-120			
Magnesium	10.2	1.0	"	10.00		102	80-120			
Potassium	9.43	1.0	"	10.00		94	80-120			
Sodium	10.4	1.0	"	10.00		104	80-120			
LCS Dup (C000905-BSD1)										
Calcium	10.2	1.0	mg/L	10.00		102	80-120	0.4	20	
Magnesium	10.2	1.0	"	10.00		102	80-120	0.3	20	
Potassium	9.43	1.0	"	10.00		94	80-120	0.04	20	
Sodium	10.3	1.0	"	10.00		103	80-120	0.9	20	

GeoAnalytical Laboratories, Inc.

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email: info@geoanalyticallab.com

Report # C6C3118 **Project: Linwood Discharge** **Date:** 04/01/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 03/31/16

Inorganic Chemistry - Quality Control

GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch C000905 - NONE				**Prepared & Analyzed: 04/01/16**						
Matrix Spike (C000905-MS1)		**Source: C6C3109-01**								
Calcium	89.3	1.0	mg/L	10.00	79.6	97	80-120			
Magnesium	38.2	1.0	"	10.00	28.8	93	80-120			
Potassium	14.8	1.0	"	10.00	3.25	116	80-120			
Sodium	115	1.0	"	10.00	104	104	80-120			
Matrix Spike Dup (C000905-MSD1)		**Source: C6C3109-01**								
Calcium	88.0	1.0	mg/L	10.00	79.6	84	80-120	1	20	
Magnesium	38.1	1.0	"	10.00	28.8	92	80-120	0.3	20	
Potassium	14.8	1.0	"	10.00	3.25	116	80-120	0.1	20	
Sodium	115	1.0	"	10.00	104	109	80-120	0.4	20	

GeoAnalytical Laboratories, Inc.

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email: info@geoanalyticallab.com

Report # C6C3118 **Project: Linwood Discharge** **Date:** 04/01/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 03/31/16

Microbiology - Quality Control
GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch C000900 - BIO				**Prepared: 03/31/16 Analyzed: 04/01/16**						
Blank (C000900-BLK1)										
E. Coli	Absent		NA							
Total Coliform	Absent		"							
Duplicate (C000900-DUP1)		**Source: C6C3110-01**								
E. Coli	Absent		NA		0.0				0	
Total Coliform	Absent		"		0.0				0	
Duplicate (C000900-DUP2)		**Source: C6C3107-01**								
E. Coli	Absent		NA		0.0				0	
Total Coliform	Absent		"		0.0				0	

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # C6C3118 **Project: Linwood Discharge** **Date:** 04/01/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 03/31/16

Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
A	Absent
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
RL	Reporting Limit
NA	Not Applicable

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr
Turlock, CA 95380

Phone: (209) 669 0100
Fax: (209) 593 2212

Lab Report # C6L3118

Regulatory ☐ Yes ☐ No CC: ☐ Yes ☐ No

Regulator:

Phone: (209) 669-7919

Fax: (209) 250-1919

Original To: frontdesk@randjavila.com

C.C To:

Client: R & J Avila, Inc.

Address: 8119 Ellington Ave

City Hilmar Zip 95324

CHAIN OF CUSTODY

☐ EDF ☐ EDT

☐ FIELD LOGS

Project ID Linwood Discharge

Sampled By (Print Name) Rui Avila

(Signature) R. Avila

Date	Time	Sample type Grab	Sample type Comp	Matrix	Sample ID	Container Type	Container Size	No. Of Containers	Nitrate as N	TDS	E. Coli (P/A)	Total Coliform (P/A)	Ca, Mg, Na, K	Bicarbonate	Carbonate	Sulfate	Chloride	Lab Use Only: Lab ID #	Lab Use Only: Preservative
3-31-16	9:40	✓			4600 W. Linwood		1L	1	✓	✓			✓	✓	✓	✓	✓		
3-31-16	9:40	✓			4600 W. Linwood		100ml	1			✓	✓							

5°C

Relinquished by (Signature)	Date	Time	Received by (Signature)	Date	Time
[signature]	3-31-16	1:40 pm	[signature]	3-31-16	1:40
Relinquished by (Signature)	Date	Time	Received by (Signature)	Date	Time

Preservative: 1 4°C 2 HCL 3 NaOH 4 $Na_2S_2O_3$ 5 HNO_3 6 H_2SO_4 7 Other

Matrix: DW Drinking Water WW Waste Water HWW Hazardous Waste (Water) S Soil/Solid

Bailers 55 Gallon Drums

Pump Truck ☐ Time Mileage

Turnaround Time ☐ Standard ☐ Silver Rush ☐ Gold Rush ☐ Platinum Rush ☐ Other

Approved By:

Exhibit 12

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # C6C3117 **Project: Linwood Discharge** **Date:** 04/01/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 03/31/16

CERTIFICATE OF ANALYSIS

Sampler: Rui Avila

Sample ID: 1600 S. Washington

Lab ID	Sample Date / Time	RL	Method	Analyte	Result	Units	Notes	Started
C6C3117-01	3/31/2016 10:15	1.0	200.7	Calcium	**32**	mg/L		04/01/16 11:12
		1.0		Magnesium	**8.9**	mg/L		"
		1.0		Potassium	**2.6**	mg/L		"
		1.0		Sodium	**41.4**	mg/L		"
		1.0	300.0	Chloride	**33.1**	mg/L		03/31/16 15:58
		0.40		Nitrate as N	**3.81**	mg/L		"
		0.5		Sulfate as SO4	**17.7**	mg/L		"
		10.0	SM 2540 C	Total Dissolved Solids (TDS)	**302**	mg/L		03/31/16 16:22
		24.4	SM2320B	Bicarbonate as HCO3	**185**	mg/L		03/31/16 15:02
		12.0		Carbonate as CO3	ND	mg/L		"
		6.8		Hydroxide as OH	ND	mg/L		"
		20.0		Total Alkalinity as CaCO3	**152**	mg/L		"
		NA	SM9223 (Colitag)	E. Coli	Absent	NA		03/31/16 14:20
		NA		Total Coliform	Present	NA		"

Kanti Gandhi
Chemist

Donna Keller
Laboratory Director

Certification # 2585

Exhibit 12

GeoAnalytical Laboratories, Inc.

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Report # C6C3117 **Project: Linwood Discharge** **Date:** 04/01/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 03/31/16

Inorganic Chemistry - Quality Control
GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch C000897 - NO PREP				**Prepared: 03/31/16 Analyzed: 04/01/16**						
Blank (C000897-BLK1)										
Total Alkalinity as CaCO3	ND	20.0	mg/L							
LCS (C000897-BS1)										
Total Alkalinity as CaCO3	38.8	20.0	mg/L	40.00		97	80-120			
LCS Dup (C000897-BSD1)										
Total Alkalinity as CaCO3	39.1	20.0	mg/L	40.00		98	80-120	0.6	10	
Matrix Spike (C000897-MS1)		**Source: C6C2801-01**								
Total Alkalinity as CaCO3	233	20.0	mg/L	40.00	200	84	80-120			
Matrix Spike Dup (C000897-MSD1)		**Source: C6C2801-01**								
Total Alkalinity as CaCO3	234	20.0	mg/L	40.00	200	86	80-120	0.3	20	
Batch C000901 - NO PREP				**Prepared: 03/31/16 Analyzed: 04/01/16**						
Blank (C000901-BLK1)										
Chloride	ND	1.0	mg/L							
Nitrate as N	ND	0.40	"							
Sulfate as SO4	ND	0.5	"							
LCS (C000901-BS1)										
Chloride	50.6	1.0	mg/L	50.00		101	80-120			
Nitrate as N	48.6	0.40	"	50.00		97	85-115			
Sulfate as SO4	53.2	0.5	"	50.00		106	80-120			
LCS Dup (C000901-BSD1)										
Chloride	50.5	1.0	mg/L	50.00		101	80-120	0.2	20	
Nitrate as N	48.6	0.40	"	50.00		97	85-115	0.006	20	
Sulfate as SO4	52.7	0.5	"	50.00		105	80-120	0.9	20	
Matrix Spike (C000901-MS1)		**Source: C6C3117-01**								
Chloride	38.7	1.0	mg/L	10.00	33.1	56	80-120			QM-07
Nitrate as N	13.6	0.40	"	10.00	3.81	98	85-115			
Sulfate as SO4	25.7	0.5	"	10.00	17.7	80	80-120			

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212

email: info@geoanalyticallab.com

Report # C6C3117 **Project: Linwood Discharge** **Date:** 04/01/16

R & J Avila **Date Rec'd:** 03/31/16

8119 Ellington Avenue

Hilmar, CA 95324

Inorganic Chemistry - Quality Control

GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch C000901 - NO PREP			**Prepared: 03/31/16 Analyzed: 04/01/16**							
Matrix Spike Dup (C000901-MSD1)		**Source: C6C3117-01**								
Chloride	38.7	1.0	mg/L	10.00	33.1	56	80-120	0.1	20	QM-07
Nitrate as N	13.6	0.40	"	10.00	3.81	98	85-115	0.2	20	
Sulfate as SO4	25.8	0.5	"	10.00	17.7	80	80-120	0.3	20	
Batch C000904 - NO PREP			**Prepared: 03/31/16 Analyzed: 04/01/16**							
Blank (C000904-BLK1)										
Total Dissolved Solids (TDS)	ND	10.0	mg/L							
Duplicate (C000904-DUP1)		**Source: C6C3118-01**								
Total Dissolved Solids (TDS)	649	10.0	mg/L		642			1	10	
Batch C000905 - NONE			**Prepared & Analyzed: 04/01/16**							
Blank (C000905-BLK1)										
Calcium	ND	1.0	mg/L							
Magnesium	ND	1.0	"							
Potassium	ND	1.0	"							
Sodium	ND	1.0	"							
LCS (C000905-BS1)										
Calcium	10.1	1.0	mg/L	10.00		101	80-120			
Magnesium	10.2	1.0	"	10.00		102	80-120			
Potassium	9.43	1.0	"	10.00		94	80-120			
Sodium	10.4	1.0	"	10.00		104	80-120			
LCS Dup (C000905-BSD1)										
Calcium	10.2	1.0	mg/L	10.00		102	80-120	0.4	20	
Magnesium	10.2	1.0	"	10.00		102	80-120	0.3	20	
Potassium	9.43	1.0	"	10.00		94	80-120	0.04	20	
Sodium	10.3	1.0	"	10.00		103	80-120	0.9	20	

GeoAnalytical Laboratories, Inc.

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Report # C6C3117 **Project: Linwood Discharge** **Date:** 04/01/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 03/31/16

Inorganic Chemistry - Quality Control
GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch C000905 - NONE				**Prepared & Analyzed: 04/01/16**						
Matrix Spike (C000905-MS1)		**Source: C6C3109-01**								
Calcium	89.3	1.0	mg/L	10.00	79.6	97	80-120			
Magnesium	38.2	1.0	"	10.00	28.8	93	80-120			
Potassium	14.8	1.0	"	10.00	3.25	116	80-120			
Sodium	115	1.0	"	10.00	104	104	80-120			
Matrix Spike Dup (C000905-MSD1)		**Source: C6C3109-01**								
Calcium	88.0	1.0	mg/L	10.00	79.6	84	80-120	1	20	
Magnesium	38.1	1.0	"	10.00	28.8	92	80-120	0.3	20	
Potassium	14.8	1.0	"	10.00	3.25	116	80-120	0.1	20	
Sodium	115	1.0	"	10.00	104	109	80-120	0.4	20	

GeoAnalytical Laboratories, Inc.

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Report # C6C3117 **Project: Linwood Discharge** **Date:** 04/01/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 03/31/16

Microbiology - Quality Control
GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch C000900 - BIO			**Prepared: 03/31/16 Analyzed: 04/01/16**							
Blank (C000900-BLK1)										
E. Coli	Absent		NA							
Total Coliform	Absent		"							
Duplicate (C000900-DUP1)		**Source: C6C3110-01**								
E. Coli	Absent		NA		0.0				0	
Total Coliform	Absent		"		0.0				0	
Duplicate (C000900-DUP2)		**Source: C6C3107-01**								
E. Coli	Absent		NA		0.0				0	
Total Coliform	Absent		"		0.0				0	

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212

email: info@geoanalyticallab.com

Report # C6C3117 **Project: Linwood Discharge** **Date:** 04/01/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 03/31/16

Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
P	Present
A	Absent
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
RL	Reporting Limit
NA	Not Applicable

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr
Turlock, CA 95380

Phone: (209) 669 0100
Fax: (209) 593 2212

Lab Report # C163117

Regulatory ☐ Yes ☐ No CC: ☐ Yes ☐ No

Regulator:

Phone: (209) 669-7919

Fax: (209) 250-1919

Original To: frontdesk@randjavila.com

C.C To:

Client: R & J Avila, Inc.

Address: 8119 Ellington Ave

City Hilmar Zip 95324

CHAIN OF CUSTODY

☐ EDF ☐ EDT

☐ FIELD LOGS

Project ID Linwood Discharge

Sampled By (Print Name) Rui Avila

(Signature) R. Avila

Date	Time	Sample type Grab	Sample type Comp	Matrix	Sample ID	Container Type	Container Size	No. Of Containers	Nitrate as N	TDS	E. Coli (P/A)	Total Coliform (P/A)	Ca, Mg, Na, K	Bicarbonate	Carbonate	Sulfate	Chloride	Lab Use Only: Lab ID #	Lab Use Only: Preservative
3-31-16	10:15 Am	✓			1600 S. Washington		1L	1	✓	✓			✓	✓	✓	✓	✓	>31	
3-31-16	10:15 Am	✓			1600 S. Washington		100ml	1			✓	✓							

5°C

Relinquished by (Signature)	Date	Time	Received by (Signature)	Date	Time
[signature]	3-31-16	1:40	[signature]	3-31-16	1:40
Relinquished by (Signature)	Date	Time	Received by (Signature)	Date	Time

Preservative: 1 4°C 2 HCL 3 NaOH 4 $Na_2S_2O_3$ 5 HNO_3 6 H_2SO_4 7 Other _____

Matrix: DW Drinking Water WW Waste Water HWW Hazardous Waste (Water) S Soil/Solid

Bailers _____ 55 Gallon Drums _____

Pump Truck ☐ Time Mileage

Turnaround Time ☐ Standard ☐ Silver Rush ☐ Gold Rush ☐ Platinum Rush ☐ Other

Approved By:

Exhibit 12

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # C6C3116 **Project: Linwood Discharge** **Date:** 04/01/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 03/31/16

CERTIFICATE OF ANALYSIS

Sampler: Rui Avila

Sample ID: 1624 S. Washington

Lab ID	Sample Date / Time	RL	Method	Analyte	Result	Units	Notes	Started
C6C3116-01	3/31/2016 10:32	1.0	200.7	Calcium	**110**	mg/L		04/01/16 11:12
		1.0		Magnesium	**36.3**	mg/L		"
		1.0		Potassium	**3.0**	mg/L		"
		1.0		Sodium	**75.1**	mg/L		"
		1.0	300.0	Chloride	**152**	mg/L		03/31/16 15:58
		0.40		Nitrate as N	**26.6**	mg/L		"
		0.5		Sulfate as SO4	**61.5**	mg/L		"
		10.0	SM 2540 C	Total Dissolved Solids (TDS)	**769**	mg/L		03/31/16 16:22
		24.4	SM2320B	Bicarbonate as HCO3	**422**	mg/L		03/31/16 15:02
		12.0		Carbonate as CO3	ND	mg/L		"
		6.8		Hydroxide as OH	ND	mg/L		"
		20.0		Total Alkalinity as CaCO3	**346**	mg/L		"
		NA	SM9223 (Colitag)	E. Coli	Absent	NA		03/31/16 14:20
		NA		Total Coliform	Present	NA		"

Kanti Gandhi
Chemist

Donna Keller
Laboratory Director

Certification # 2585

Exhibit 12

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # C6C3116 **Project: Linwood Discharge** **Date:** 04/01/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 03/31/16

Inorganic Chemistry - Quality Control
GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch C000897 - NO PREP				**Prepared: 03/31/16 Analyzed: 04/01/16**						
Blank (C000897-BLK1)										
Total Alkalinity as CaCO3	ND	20.0	mg/L							
LCS (C000897-BS1)										
Total Alkalinity as CaCO3	38.8	20.0	mg/L	40.00		97	80-120			
LCS Dup (C000897-BSD1)										
Total Alkalinity as CaCO3	39.1	20.0	mg/L	40.00		98	80-120	0.6	10	
Matrix Spike (C000897-MS1)		**Source: C6C2801-01**								
Total Alkalinity as CaCO3	233	20.0	mg/L	40.00	200	84	80-120			
Matrix Spike Dup (C000897-MSD1)		**Source: C6C2801-01**								
Total Alkalinity as CaCO3	234	20.0	mg/L	40.00	200	86	80-120	0.3	20	
Batch C000901 - NO PREP				**Prepared: 03/31/16 Analyzed: 04/01/16**						
Blank (C000901-BLK1)										
Chloride	ND	1.0	mg/L							
Nitrate as N	ND	0.40	"							
Sulfate as SO4	ND	0.5	"							
LCS (C000901-BS1)										
Chloride	50.6	1.0	mg/L	50.00		101	80-120			
Nitrate as N	48.6	0.40	"	50.00		97	85-115			
Sulfate as SO4	53.2	0.5	"	50.00		106	80-120			
LCS Dup (C000901-BSD1)										
Chloride	50.5	1.0	mg/L	50.00		101	80-120	0.2	20	
Nitrate as N	48.6	0.40	"	50.00		97	85-115	0.006	20	
Sulfate as SO4	52.7	0.5	"	50.00		105	80-120	0.9	20	
Matrix Spike (C000901-MS1)		**Source: C6C3117-01**								
Chloride	38.7	1.0	mg/L	10.00	33.1	56	80-120			QM-07
Nitrate as N	13.6	0.40	"	10.00	3.81	98	85-115			
Sulfate as SO4	25.7	0.5	"	10.00	17.7	80	80-120			

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
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Report # C6C3116 **Project: Linwood Discharge** **Date:** 04/01/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 03/31/16

Inorganic Chemistry - Quality Control
GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch C000901 - NO PREP				**Prepared: 03/31/16 Analyzed: 04/01/16**						
Matrix Spike Dup (C000901-MSD1)		**Source: C6C3117-01**								
Chloride	38.7	1.0	mg/L	10.00	33.1	56	80-120	0.1	20	QM-07
Nitrate as N	13.6	0.40	"	10.00	3.81	98	85-115	0.2	20	
Sulfate as SO4	25.8	0.5	"	10.00	17.7	80	80-120	0.3	20	
Batch C000904 - NO PREP				**Prepared: 03/31/16 Analyzed: 04/01/16**						
Blank (C000904-BLK1)										
Total Dissolved Solids (TDS)	ND	10.0	mg/L							
Duplicate (C000904-DUP1)		**Source: C6C3118-01**								
Total Dissolved Solids (TDS)	649	10.0	mg/L		642			1	10	
Batch C000905 - NONE				**Prepared & Analyzed: 04/01/16**						
Blank (C000905-BLK1)										
Calcium	ND	1.0	mg/L							
Magnesium	ND	1.0	"							
Potassium	ND	1.0	"							
Sodium	ND	1.0	"							
LCS (C000905-BS1)										
Calcium	10.1	1.0	mg/L	10.00		101	80-120			
Magnesium	10.2	1.0	"	10.00		102	80-120			
Potassium	9.43	1.0	"	10.00		94	80-120			
Sodium	10.4	1.0	"	10.00		104	80-120			
LCS Dup (C000905-BSD1)										
Calcium	10.2	1.0	mg/L	10.00		102	80-120	0.4	20	
Magnesium	10.2	1.0	"	10.00		102	80-120	0.3	20	
Potassium	9.43	1.0	"	10.00		94	80-120	0.04	20	
Sodium	10.3	1.0	"	10.00		103	80-120	0.9	20	

GeoAnalytical Laboratories, Inc.

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email: info@geoanalyticallab.com

Report # C6C3116 **Project: Linwood Discharge** **Date:** 04/01/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 03/31/16

Inorganic Chemistry - Quality Control
GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch C000905 - NONE				**Prepared & Analyzed: 04/01/16**						
Matrix Spike (C000905-MS1)		**Source: C6C3109-01**								
Calcium	89.3	1.0	mg/L	10.00	79.6	97	80-120			
Magnesium	38.2	1.0	"	10.00	28.8	93	80-120			
Potassium	14.8	1.0	"	10.00	3.25	116	80-120			
Sodium	115	1.0	"	10.00	104	104	80-120			
Matrix Spike Dup (C000905-MSD1)		**Source: C6C3109-01**								
Calcium	88.0	1.0	mg/L	10.00	79.6	84	80-120	1	20	
Magnesium	38.1	1.0	"	10.00	28.8	92	80-120	0.3	20	
Potassium	14.8	1.0	"	10.00	3.25	116	80-120	0.1	20	
Sodium	115	1.0	"	10.00	104	109	80-120	0.4	20	

GeoAnalytical Laboratories, Inc.

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email: info@geoanalyticallab.com

Report # C6C3116 **Project: Linwood Discharge** **Date:** 04/01/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 03/31/16

Microbiology - Quality Control
GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch C000900 - BIO				**Prepared: 03/31/16 Analyzed: 04/01/16**						
Blank (C000900-BLK1)										
E. Coli	Absent		NA							
Total Coliform	Absent		"							
Duplicate (C000900-DUP1)		**Source: C6C3110-01**								
E. Coli	Absent		NA		0.0				0	
Total Coliform	Absent		"		0.0				0	
Duplicate (C000900-DUP2)		**Source: C6C3107-01**								
E. Coli	Absent		NA		0.0				0	
Total Coliform	Absent		"		0.0				0	

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # C6C3116 **Project: Linwood Discharge** **Date:** 04/01/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 03/31/16

Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
P	Present
A	Absent
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
RL	Reporting Limit
NA	Not Applicable

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr
Turlock, CA 95380

Phone: (209) 669 0100
Fax: (209) 593 2212

Lab Report # C603116

Regulatory ☐ Yes ☐ No CC: ☐ Yes ☐ No

Regulator:

Phone: (209) 669-7919

Fax: (209) 250-1919

Original To: frontdesk@randjavila.com

C.C To:

Client: R & J Avila, Inc.

Address: 8119 Ellington Ave

City Hilmar Zip 95324

CHAIN OF CUSTODY

☐ EDF ☐ EDT

☐ FIELD LOGS

Project ID Linwood Discharge

Sampled By (Print Name) Rui Avila

(Signature) R. Avila

Date	Time	Sample type Grab	Sample type Comp	Matrix	Sample ID	Container Type	Container Size	No. Of Containers	Nitrate as N	TDS	E. Coli (P/A)	Total Coliform (P/A)	Ca, Mg, Na, K	Bicarbonate	Carbonate	Sulfate	Chloride	Lab Use Only: Lab ID #	Lab Use Only: Preservative
3-31-16	10:32 AM	✓			1624 S. Washington		1L	1	✓	✓			✓	✓	✓	✓	✓		
3-31-16	10:32 AM	✓			1624 S. Washington		100ml	1			✓	✓							

5°C

Relinquished by (Signature)	Date	Time	Received by (Signature)	Date	Time
[signature]	3-31-16	1:40	[signature]	3-31-16	1:40
Relinquished by (Signature)	Date	Time	Received by (Signature)	Date	Time

Preservative: 1 4°C 2 HCL 3 NaOH 4 $Na_2S_2O_3$ 5 HNO_3 6 H_2SO_4 7 Other _____

Matrix: DW Drinking Water WW Waste Water HWW Hazardous Waste (Water) S Soil/Solid

Bailers _____ 55 Gallon Drums _____

Pump Truck ☐ Time Mileage

Turnaround Time ☐ Standard ☐ Silver Rush ☐ Gold Rush ☐ Platinum Rush ☐ Other

Approved By:

Exhibit 12

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # C6C3115 **Project: Linwood Discharge** **Date:** 04/01/16

Date Rec'd: 03/31/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

CERTIFICATE OF ANALYSIS

Sampler: Rui Avila

Sample ID: 4406 Linwood House

Lab ID	Sample Date / Time	RL	Method	Analyte	Result	Units	Notes	Started
C6C3115-01	3/31/2016 11:20	1.0	200.7	Calcium	**100**	mg/L		04/01/16 11:12
		1.0		Magnesium	**37.9**	mg/L		"
		1.0		Potassium	**4.0**	mg/L		"
		1.0		Sodium	**120**	mg/L		"
		1.0	300.0	Chloride	**175**	mg/L		03/31/16 15:58
		0.40		Nitrate as N	**16.3**	mg/L		"
		0.5		Sulfate as SO4	**110**	mg/L		"
		10.0	SM 2540 C	Total Dissolved Solids (TDS)	**892**	mg/L		03/31/16 16:22
		24.4	SM2320B	Bicarbonate as HCO3	**506**	mg/L		03/31/16 15:02
		12.0		Carbonate as CO3	ND	mg/L		"
		6.8		Hydroxide as OH	ND	mg/L		"
		20.0		Total Alkalinity as CaCO3	**415**	mg/L		"
		NA	SM9223 (Colitag)	E. Coli	Absent	NA		03/31/16 14:20
		NA		Total Coliform	Absent	NA		"

Kanti Gandhi KG
Kanti Gandhi
Chemist

Donna Keller
Laboratory Director

Certification # 2585

Exhibit 12

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
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Report # C6C3115 **Project: Linwood Discharge** **Date:** 04/01/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 03/31/16

Inorganic Chemistry - Quality Control

GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch C000897 - NO PREP				**Prepared: 03/31/16 Analyzed: 04/01/16**						
Blank (C000897-BLK1)										
Total Alkalinity as CaCO3	ND	20.0	mg/L							
LCS (C000897-BS1)										
Total Alkalinity as CaCO3	38.8	20.0	mg/L	40.00		97	80-120			
LCS Dup (C000897-BSD1)										
Total Alkalinity as CaCO3	39.1	20.0	mg/L	40.00		98	80-120	0.6	10	
Matrix Spike (C000897-MS1)		**Source: C6C2801-01**								
Total Alkalinity as CaCO3	233	20.0	mg/L	40.00	200	84	80-120			
Matrix Spike Dup (C000897-MSD1)		**Source: C6C2801-01**								
Total Alkalinity as CaCO3	234	20.0	mg/L	40.00	200	86	80-120	0.3	20	
Batch C000901 - NO PREP				**Prepared: 03/31/16 Analyzed: 04/01/16**						
Blank (C000901-BLK1)										
Chloride	ND	1.0	mg/L							
Nitrate as N	ND	0.40	"							
Sulfate as SO4	ND	0.5	"							
LCS (C000901-BS1)										
Chloride	50.6	1.0	mg/L	50.00		101	80-120			
Nitrate as N	48.6	0.40	"	50.00		97	85-115			
Sulfate as SO4	53.2	0.5	"	50.00		106	80-120			
LCS Dup (C000901-BSD1)										
Chloride	50.5	1.0	mg/L	50.00		101	80-120	0.2	20	
Nitrate as N	48.6	0.40	"	50.00		97	85-115	0.006	20	
Sulfate as SO4	52.7	0.5	"	50.00		105	80-120	0.9	20	
Matrix Spike (C000901-MS1)		**Source: C6C3117-01**								
Chloride	38.7	1.0	mg/L	10.00	33.1	56	80-120			QM-07
Nitrate as N	13.6	0.40	"	10.00	3.81	98	85-115			
Sulfate as SO4	25.7	0.5	"	10.00	17.7	80	80-120			

GeoAnalytical Laboratories, Inc.

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email: info@geoanalyticallab.com

Report # C6C3115 **Project: Linwood Discharge** **Date:** 04/01/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 03/31/16

Inorganic Chemistry - Quality Control
GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch C000901 - NO PREP				**Prepared: 03/31/16 Analyzed: 04/01/16**						
Matrix Spike Dup (C000901-MSD1)		**Source: C6C3117-01**								
Chloride	38.7	1.0	mg/L	10.00	33.1	56	80-120	0.1	20	QM-07
Nitrate as N	13.6	0.40	"	10.00	3.81	98	85-115	0.2	20	
Sulfate as SO4	25.8	0.5	"	10.00	17.7	80	80-120	0.3	20	
Batch C000904 - NO PREP				**Prepared: 03/31/16 Analyzed: 04/01/16**						
Blank (C000904-BLK1)										
Total Dissolved Solids (TDS)	ND	10.0	mg/L							
Duplicate (C000904-DUP1)		**Source: C6C3118-01**								
Total Dissolved Solids (TDS)	649	10.0	mg/L		642			1	10	
Batch C000905 - NONE				**Prepared & Analyzed: 04/01/16**						
Blank (C000905-BLK1)										
Calcium	ND	1.0	mg/L							
Magnesium	ND	1.0	"							
Potassium	ND	1.0	"							
Sodium	ND	1.0	"							
LCS (C000905-BS1)										
Calcium	10.1	1.0	mg/L	10.00		101	80-120			
Magnesium	10.2	1.0	"	10.00		102	80-120			
Potassium	9.43	1.0	"	10.00		94	80-120			
Sodium	10.4	1.0	"	10.00		104	80-120			
LCS Dup (C000905-BSD1)										
Calcium	10.2	1.0	mg/L	10.00		102	80-120	0.4	20	
Magnesium	10.2	1.0	"	10.00		102	80-120	0.3	20	
Potassium	9.43	1.0	"	10.00		94	80-120	0.04	20	
Sodium	10.3	1.0	"	10.00		103	80-120	0.9	20	

GeoAnalytical Laboratories, Inc.

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Report # C6C3115 **Project: Linwood Discharge** **Date:** 04/01/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 03/31/16

Inorganic Chemistry - Quality Control
GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch C000905 - NONE				**Prepared & Analyzed: 04/01/16**						
Matrix Spike (C000905-MS1)		**Source: C6C3109-01**								
Calcium	89.3	1.0	mg/L	10.00	79.6	97	80-120			
Magnesium	38.2	1.0	"	10.00	28.8	93	80-120			
Potassium	14.8	1.0	"	10.00	3.25	116	80-120			
Sodium	115	1.0	"	10.00	104	104	80-120			
Matrix Spike Dup (C000905-MSD1)		**Source: C6C3109-01**								
Calcium	88.0	1.0	mg/L	10.00	79.6	84	80-120	1	20	
Magnesium	38.1	1.0	"	10.00	28.8	92	80-120	0.3	20	
Potassium	14.8	1.0	"	10.00	3.25	116	80-120	0.1	20	
Sodium	115	1.0	"	10.00	104	109	80-120	0.4	20	

GeoAnalytical Laboratories, Inc.

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email: info@geoanalyticallab.com

Report # C6C3115 **Project: Linwood Discharge** **Date:** 04/01/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 03/31/16

Microbiology - Quality Control
GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch C000900 - BIO				**Prepared: 03/31/16 Analyzed: 04/01/16**						
Blank (C000900-BLK1)										
E. Coli	Absent		NA							
Total Coliform	Absent		"							
Duplicate (C000900-DUP1)		**Source: C6C3110-01**								
E. Coli	Absent		NA		0.0				0	
Total Coliform	Absent		"		0.0				0	
Duplicate (C000900-DUP2)		**Source: C6C3107-01**								
E. Coli	Absent		NA		0.0				0	
Total Coliform	Absent		"		0.0				0	

GeoAnalytical Laboratories, Inc.

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email: info@geoanalyticallab.com

Report # C6C3115 **Project: Linwood Discharge** **Date:** 04/01/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 03/31/16

Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
A	Absent
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
RL	Reporting Limit
NA	Not Applicable

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr
Turlock, CA 95380

Phone: (209) 669 0100
Fax: (209) 593 2212

Lab Report # C6C3115

Regulatory ☐ Yes ☐ No CC: ☐ Yes ☐ No

Regulator:

Phone: (209) 669-7919

Fax: (209) 250-1919

Original To: frontdesk@randjavila.com

C.C To:

Client: R & J Avila, Inc.

Address: 8119 Ellington Ave

City Hilmar Zip 95324

CHAIN OF CUSTODY

☐ EDF ☐ EDT

☐ FIELD LOGS

Project ID Linwood Discharge

Sampled By (Print Name) Rui Avila

(Signature) R. Avila

Date	Time	Sample type Grab	Sample type Comp	Matrix	Sample ID	Container Type	Container Size	No. Of Containers	Nitrate as N	TDS	E. Coli (P/A)	Total Coliform (P/A)	Ca, Mg, Na, K	Bicarbonate	Carbonate	Sulfate	Chloride	Lab Use Only: Lab ID #	Lab Use Only: Preservative
3-31-16	11:20 am	✓			4406 Linwood House		1L	1	✓	✓			✓	✓	✓	✓	✓		
3-31-16	11:20 am	✓			4406 Linwood House		100ml	1			✓	✓						501	

5°C

Relinquished by (Signature)	Date	Time	Received by (Signature)	Date	Time
[signature]	3-31-16	1:10 pm	[signature]	3-31-16	1:40
Relinquished by (Signature)	Date	Time	Received by (Signature)	Date	Time

Preservative: 1 4°C 2 HCL 3 NaOH 4 $Na_2S_2O_3$ 5 HNO_3 6 H_2SO_4 7 Other _____

Matrix: DW Drinking Water WW Waste Water HWW Hazardous Waste (Water) S Soil/Solid

Bailers _____ 55 Gallon Drums _____

Pump Truck ☐ Time Mileage

Turnaround Time ☐ Standard ☐ Silver Rush ☐ Gold Rush ☐ Platinum Rush ☐ Other

Approved By:

Exhibit 12

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # **C6C3114** **Project: Linwood Discharge** **Date:** 04/01/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 03/31/16

CERTIFICATE OF ANALYSIS

Sampler: Rui Avila

Sample ID: 4318 W Linwood

Lab ID	Sample Date / Time	RL	Method	Analyte	Result	Units	Notes	Started
C6C3114-01	3/31/2016 11:35	1.0	200.7	Calcium	**150**	mg/L		04/01/16 11:12
		1.0		Magnesium	**52.7**	mg/L		"
		1.0		Potassium	**4.5**	mg/L		"
		1.0		Sodium	**145**	mg/L		"
		1.0	300.0	Chloride	**280**	mg/L		03/31/16 15:58
		0.40		Nitrate as N	**23.9**	mg/L		"
		0.5		Sulfate as SO4	**141**	mg/L		"
		10.0	SM 2540 C	Total Dissolved Solids (TDS)	**1230**	mg/L		03/31/16 16:22
		24.4	SM2320B	Bicarbonate as HCO3	**651**	mg/L		03/31/16 15:02
		12.0		Carbonate as CO3	ND	mg/L		"
		6.8		Hydroxide as OH	ND	mg/L		"
		20.0		Total Alkalinity as CaCO3	**534**	mg/L		"
		NA	SM9223 (Colitag)	E. Coli	Absent	NA		03/31/16 14:20
		NA		Total Coliform	Absent	NA		"

Kanti Gandhi
Chemist

Donna Keller
Laboratory Director

Certification # 2585

Exhibit 12

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # C6C3114 **Project: Linwood Discharge** **Date:** 04/01/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 03/31/16

Inorganic Chemistry - Quality Control
GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch C000897 - NO PREP				**Prepared: 03/31/16 Analyzed: 04/01/16**						
Blank (C000897-BLK1)										
Total Alkalinity as CaCO3	ND	20.0	mg/L							
LCS (C000897-BS1)										
Total Alkalinity as CaCO3	38.8	20.0	mg/L	40.00		97	80-120			
LCS Dup (C000897-BSD1)										
Total Alkalinity as CaCO3	39.1	20.0	mg/L	40.00		98	80-120	0.6	10	
Matrix Spike (C000897-MS1)		**Source: C6C2801-01**								
Total Alkalinity as CaCO3	233	20.0	mg/L	40.00	200	84	80-120			
Matrix Spike Dup (C000897-MSD1)		**Source: C6C2801-01**								
Total Alkalinity as CaCO3	234	20.0	mg/L	40.00	200	86	80-120	0.3	20	
Batch C000901 - NO PREP				**Prepared: 03/31/16 Analyzed: 04/01/16**						
Blank (C000901-BLK1)										
Chloride	ND	1.0	mg/L							
Nitrate as N	ND	0.40	"							
Sulfate as SO4	ND	0.5	"							
LCS (C000901-BS1)										
Chloride	50.6	1.0	mg/L	50.00		101	80-120			
Nitrate as N	48.6	0.40	"	50.00		97	85-115			
Sulfate as SO4	53.2	0.5	"	50.00		106	80-120			
LCS Dup (C000901-BSD1)										
Chloride	50.5	1.0	mg/L	50.00		101	80-120	0.2	20	
Nitrate as N	48.6	0.40	"	50.00		97	85-115	0.006	20	
Sulfate as SO4	52.7	0.5	"	50.00		105	80-120	0.9	20	
Matrix Spike (C000901-MS1)		**Source: C6C3117-01**								
Chloride	38.7	1.0	mg/L	10.00	33.1	56	80-120			QM-07
Nitrate as N	13.6	0.40	"	10.00	3.81	98	85-115			
Sulfate as SO4	25.7	0.5	"	10.00	17.7	80	80-120			

GeoAnalytical Laboratories, Inc.

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email: info@geoanalyticallab.com

Report # C6C3114 **Project: Linwood Discharge** **Date:** 04/01/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 03/31/16

Inorganic Chemistry - Quality Control
GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch C000901 - NO PREP				**Prepared: 03/31/16 Analyzed: 04/01/16**						
Matrix Spike Dup (C000901-MSD1)		**Source: C6C3117-01**								
Chloride	38.7	1.0	mg/L	10.00	33.1	56	80-120	0.1	20	QM-07
Nitrate as N	13.6	0.40	"	10.00	3.81	98	85-115	0.2	20	
Sulfate as SO4	25.8	0.5	"	10.00	17.7	80	80-120	0.3	20	
Batch C000904 - NO PREP				**Prepared: 03/31/16 Analyzed: 04/01/16**						
Blank (C000904-BLK1)										
Total Dissolved Solids (TDS)	ND	10.0	mg/L							
Duplicate (C000904-DUP1)		**Source: C6C3118-01**								
Total Dissolved Solids (TDS)	649	10.0	mg/L		642			1	10	
Batch C000905 - NONE				**Prepared & Analyzed: 04/01/16**						
Blank (C000905-BLK1)										
Calcium	ND	1.0	mg/L							
Magnesium	ND	1.0	"							
Potassium	ND	1.0	"							
Sodium	ND	1.0	"							
LCS (C000905-BS1)										
Calcium	10.1	1.0	mg/L	10.00		101	80-120			
Magnesium	10.2	1.0	"	10.00		102	80-120			
Potassium	9.43	1.0	"	10.00		94	80-120			
Sodium	10.4	1.0	"	10.00		104	80-120			
LCS Dup (C000905-BSD1)										
Calcium	10.2	1.0	mg/L	10.00		102	80-120	0.4	20	
Magnesium	10.2	1.0	"	10.00		102	80-120	0.3	20	
Potassium	9.43	1.0	"	10.00		94	80-120	0.04	20	
Sodium	10.3	1.0	"	10.00		103	80-120	0.9	20	

GeoAnalytical Laboratories, Inc.

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email: info@geoanalyticallab.com

Report # C6C3114 **Project: Linwood Discharge** **Date:** 04/01/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 03/31/16

Inorganic Chemistry - Quality Control

GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch C000905 - NONE				**Prepared & Analyzed: 04/01/16**						
Matrix Spike (C000905-MS1)		**Source: C6C3109-01**								
Calcium	89.3	1.0	mg/L	10.00	79.6	97	80-120			
Magnesium	38.2	1.0	"	10.00	28.8	93	80-120			
Potassium	14.8	1.0	"	10.00	3.25	116	80-120			
Sodium	115	1.0	"	10.00	104	104	80-120			
Matrix Spike Dup (C000905-MSD1)		**Source: C6C3109-01**								
Calcium	88.0	1.0	mg/L	10.00	79.6	84	80-120	1	20	
Magnesium	38.1	1.0	"	10.00	28.8	92	80-120	0.3	20	
Potassium	14.8	1.0	"	10.00	3.25	116	80-120	0.1	20	
Sodium	115	1.0	"	10.00	104	109	80-120	0.4	20	

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # C6C3114 **Project: Linwood Discharge** **Date:** 04/01/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 03/31/16

Microbiology - Quality Control
GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch C000900 - BIO			**Prepared: 03/31/16 Analyzed: 04/01/16**							
Blank (C000900-BLK1)										
E. Coli	Absent		NA							
Total Coliform	Absent		"							
Duplicate (C000900-DUP1)		**Source: C6C3110-01**								
E. Coli	Absent		NA		0.0				0	
Total Coliform	Absent		"		0.0				0	
Duplicate (C000900-DUP2)		**Source: C6C3107-01**								
E. Coli	Absent		NA		0.0				0	
Total Coliform	Absent		"		0.0				0	

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # C6C3114 **Project: Linwood Discharge** **Date:** 04/01/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 03/31/16

Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
A	Absent
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
RL	Reporting Limit
NA	Not Applicable

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr
Turlock, CA 95380

Phone: (209) 669 0100
Fax: (209) 593 2212

Lab Report # C6C3114

Regulatory ☐ Yes ☐ No CC: ☐ Yes ☐ No

Regulator:

Phone: (209) 669-7919

Fax: (209) 250-1919

Original To: frontdesk@randjavila.com

C.C To:

Client: R & J Avila, Inc.

Address: 8119 Ellington Ave

City Hilmar Zip 95324

CHAIN OF CUSTODY

☐ EDF ☐ EDT

☐ FIELD LOGS

Project ID Linwood Discharge

Sampled By (Print Name) Rui Avila

(Signature) R. Avila

Date	Time	Sample type Grab	Sample type Comp	Matrix	Sample ID	Container Type	Container Size	No. Of Containers	Nitrate as N	TDS	E. Coli (P/A)	Total Coliform (P/A)	Ca, Mg, Na, K	Bicarbonate	Carbonate	Sulfate	Chloride	Lab Use Only: Lab ID #	Lab Use Only: Preservative
3-31-16	11:35 AM	✓			4318 W. Linwood		1L	1	✓	✓			✓	✓	✓	✓	✓		
3-31-16	11:35 AM	✓			4318 W. Linwood		100ml	1			✓	✓						501	

5°C

Relinquished by (Signature)	Date	Time	Received by (Signature)	Date	Time
[signature]	3-31-16	1:40pm	[signature]	3-31-16	1:40
Relinquished by (Signature)	Date	Time	Received by (Signature)	Date	Time

Preservative: 1 4°C 2 HCL 3 NaOH 4 $Na_2S_2O_3$ 5 HNO_3 6 H_2SO_4 7 Other _____

Matrix: DW Drinking Water WW Waste Water HWW Hazardous Waste (Water) S Soil/Solid

Bailers _____ 55 Gallon Drums _____

Pump Truck ☐ Time Mileage

Turnaround Time ☐ Standard ☐ Silver Rush ☐ Gold Rush ☐ Platinum Rush ☐ Other

Approved By:

Exhibit 12

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # C6C3113 **Project: Linwood Discharge** **Date:** 04/01/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 03/31/16

CERTIFICATE OF ANALYSIS

Sampler: Rui Avila

Sample ID: 4230 W Linwood

Lab ID	Sample Date / Time	RL	Method	Analyte	Result	Units	Notes	Started
C6C3113-01	3/31/2016 11:47	1.0	200.7	Calcium	**110**	mg/L		04/01/16 11:12
		1.0		Magnesium	**39.1**	mg/L		"
		1.0		Potassium	**4.4**	mg/L		"
		1.0		Sodium	**105**	mg/L		"
		1.0	300.0	Chloride	**177**	mg/L		03/31/16 15:58
		0.40		Nitrate as N	**15.0**	mg/L		"
		0.5		Sulfate as SO4	**114**	mg/L		"
		10.0	SM 2540 C	Total Dissolved Solids (TDS)	**885**	mg/L		03/31/16 16:22
		24.4	SM2320B	Bicarbonate as HCO3	**508**	mg/L		03/31/16 15:02
		12.0		Carbonate as CO3	ND	mg/L		"
		6.8		Hydroxide as OH	ND	mg/L		"
		20.0		Total Alkalinity as CaCO3	**416**	mg/L		"
		NA	SM9223 (Colitag)	E. Coli	Absent	NA		03/31/16 14:20
		NA		Total Coliform	Absent	NA		"

Kanti Gandhi
Chemist

Donna Keller
Laboratory Director

Certification # 2585

Exhibit 12

GeoAnalytical Laboratories, Inc.

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Report # C6C3113 **Project: Linwood Discharge** **Date:** 04/01/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 03/31/16

Inorganic Chemistry - Quality Control
GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch C000897 - NO PREP			**Prepared: 03/31/16 Analyzed: 04/01/16**							
Blank (C000897-BLK1)										
Total Alkalinity as CaCO3	ND	20.0	mg/L							
LCS (C000897-BS1)										
Total Alkalinity as CaCO3	38.8	20.0	mg/L	40.00		97	80-120			
LCS Dup (C000897-BSD1)										
Total Alkalinity as CaCO3	39.1	20.0	mg/L	40.00		98	80-120	0.6	10	
Matrix Spike (C000897-MS1)		**Source: C6C2801-01**								
Total Alkalinity as CaCO3	233	20.0	mg/L	40.00	200	84	80-120			
Matrix Spike Dup (C000897-MSD1)		**Source: C6C2801-01**								
Total Alkalinity as CaCO3	234	20.0	mg/L	40.00	200	86	80-120	0.3	20	
Batch C000901 - NO PREP			**Prepared: 03/31/16 Analyzed: 04/01/16**							
Blank (C000901-BLK1)										
Chloride	ND	1.0	mg/L							
Nitrate as N	ND	0.40	"							
Sulfate as SO4	ND	0.5	"							
LCS (C000901-BS1)										
Chloride	50.6	1.0	mg/L	50.00		101	80-120			
Nitrate as N	48.6	0.40	"	50.00		97	85-115			
Sulfate as SO4	53.2	0.5	"	50.00		106	80-120			
LCS Dup (C000901-BSD1)										
Chloride	50.5	1.0	mg/L	50.00		101	80-120	0.2	20	
Nitrate as N	48.6	0.40	"	50.00		97	85-115	0.006	20	
Sulfate as SO4	52.7	0.5	"	50.00		105	80-120	0.9	20	
Matrix Spike (C000901-MS1)		**Source: C6C3117-01**								
Chloride	38.7	1.0	mg/L	10.00	33.1	56	80-120			QM-07
Nitrate as N	13.6	0.40	"	10.00	3.81	98	85-115			
Sulfate as SO4	25.7	0.5	"	10.00	17.7	80	80-120			

GeoAnalytical Laboratories, Inc.

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email: info@geoanalyticallab.com

Report # C6C3113 **Project: Linwood Discharge** **Date:** 04/01/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 03/31/16

Inorganic Chemistry - Quality Control
GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch C000901 - NO PREP				**Prepared: 03/31/16 Analyzed: 04/01/16**						
Matrix Spike Dup (C000901-MSD1)		**Source: C6C3117-01**								
Chloride	38.7	1.0	mg/L	10.00	33.1	56	80-120	0.1	20	QM-07
Nitrate as N	13.6	0.40	"	10.00	3.81	98	85-115	0.2	20	
Sulfate as SO4	25.8	0.5	"	10.00	17.7	80	80-120	0.3	20	
Batch C000904 - NO PREP				**Prepared: 03/31/16 Analyzed: 04/01/16**						
Blank (C000904-BLK1)										
Total Dissolved Solids (TDS)	ND	10.0	mg/L							
Duplicate (C000904-DUP1)		**Source: C6C3118-01**								
Total Dissolved Solids (TDS)	649	10.0	mg/L		642			1	10	
Batch C000905 - NONE				**Prepared & Analyzed: 04/01/16**						
Blank (C000905-BLK1)										
Calcium	ND	1.0	mg/L							
Magnesium	ND	1.0	"							
Potassium	ND	1.0	"							
Sodium	ND	1.0	"							
LCS (C000905-BS1)										
Calcium	10.1	1.0	mg/L	10.00		101	80-120			
Magnesium	10.2	1.0	"	10.00		102	80-120			
Potassium	9.43	1.0	"	10.00		94	80-120			
Sodium	10.4	1.0	"	10.00		104	80-120			
LCS Dup (C000905-BSD1)										
Calcium	10.2	1.0	mg/L	10.00		102	80-120	0.4	20	
Magnesium	10.2	1.0	"	10.00		102	80-120	0.3	20	
Potassium	9.43	1.0	"	10.00		94	80-120	0.04	20	
Sodium	10.3	1.0	"	10.00		103	80-120	0.9	20	

GeoAnalytical Laboratories, Inc.

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email: info@geoanalyticallab.com

Report # C6C3113 **Project: Linwood Discharge** **Date:** 04/01/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 03/31/16

Inorganic Chemistry - Quality Control
GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch C000905 - NONE				**Prepared & Analyzed: 04/01/16**						
Matrix Spike (C000905-MS1)		**Source: C6C3109-01**								
Calcium	89.3	1.0	mg/L	10.00	79.6	97	80-120			
Magnesium	38.2	1.0	"	10.00	28.8	93	80-120			
Potassium	14.8	1.0	"	10.00	3.25	116	80-120			
Sodium	115	1.0	"	10.00	104	104	80-120			
Matrix Spike Dup (C000905-MSD1)		**Source: C6C3109-01**								
Calcium	88.0	1.0	mg/L	10.00	79.6	84	80-120	1	20	
Magnesium	38.1	1.0	"	10.00	28.8	92	80-120	0.3	20	
Potassium	14.8	1.0	"	10.00	3.25	116	80-120	0.1	20	
Sodium	115	1.0	"	10.00	104	109	80-120	0.4	20	

GeoAnalytical Laboratories, Inc.

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email: info@geoanalyticallab.com

Report # C6C3113 **Project: Linwood Discharge** **Date:** 04/01/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 03/31/16

Microbiology - Quality Control
GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch C000900 - BIO				**Prepared: 03/31/16 Analyzed: 04/01/16**						
Blank (C000900-BLK1)										
E. Coli	Absent		NA							
Total Coliform	Absent		"							
Duplicate (C000900-DUP1)		**Source: C6C3110-01**								
E. Coli	Absent		NA		0.0				0	
Total Coliform	Absent		"		0.0				0	
Duplicate (C000900-DUP2)		**Source: C6C3107-01**								
E. Coli	Absent		NA		0.0				0	
Total Coliform	Absent		"		0.0				0	

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212

email: info@geoanalyticallab.com

Report # C6C3113 **Project: Linwood Discharge** **Date:** 04/01/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 03/31/16

Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
A	Absent
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
RL	Reporting Limit
NA	Not Applicable

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr
Turlock, CA 95380

Phone: (209) 669 0100
Fax: (209) 593 2212

Lab Report # C6C3113

Regulatory ☐ Yes ☐ No CC: ☐ Yes ☐ No

Regulator:

Phone: (209) 669-7919

Fax: (209) 250-1919

Original To: frontdesk@randjavila.com

C.C To:

Client: R & J Avila, Inc.

Address: 8119 Ellington Ave

City Hilmar Zip 95324

CHAIN OF CUSTODY

☐ EDF ☐ EDT

☐ FIELD LOGS

Project ID Linwood Discharge

Sampled By (Print Name) Rui Avila

(Signature) R = Avila

Date	Time	Sample type Grab	Sample type Comp	Matrix	Sample ID	Container Type	Container Size	No. Of Containers	Nitrate as N	TDS	E. Coli (P/A)	Total Coliform (P/A)	Ca, Mg, Na, K	Bicarbonate	Carbonate	Sulfate	Chloride	Lab Use Only: Lab ID #	Lab Use Only: Preservative
3-31-16	11:47 Am	✓			4230 W. Linwood		1L	1	✓	✓			✓	✓	✓	✓	✓		
3-31-16	11:47 Am	✓			4230 W. Linwood		100ml	1			✓	✓						501	

5°C

Relinquished by (Signature)	Date	Time	Received by (Signature)	Date	Time
[signature]	3-31-16	1:40 pm	[signature]	3-31-16	1:40
Relinquished by (Signature)	Date	Time	Received by (Signature)	Date	Time

Preservative: 1 4°C 2 HCL 3 NaOH 4 $Na_2S_2O_3$ 5 HNO_3 6 H_2SO_4 7 Other

Matrix: DW Drinking Water WW Waste Water HWW Hazardous Waste (Water) S Soil/Solid

Bailers 55 Gallon Drums

Pump Truck ☐ Time Mileage

Turnaround Time ☐ Standard ☐ Silver Rush ☐ Gold Rush ☐ Platinum Rush ☐ Other

Approved By:

Exhibit 12

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # C6C3112 **Project: Linwood Discharge** **Date:** 04/01/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 03/31/16

CERTIFICATE OF ANALYSIS

Sampler: Rui Avila

Sample ID: 4207 Linwood

Lab ID	Sample Date / Time	RL	Method	Analyte	Result	Units	Notes	Started
C6C3112-01	3/31/2016 12:06	1.0	200.7	Calcium	**19**	mg/L		04/01/16 11:12
		1.0		Magnesium	**3.2**	mg/L		"
		1.0		Potassium	**2.7**	mg/L		"
		1.0		Sodium	**30.0**	mg/L		"
		1.0	300.0	Chloride	**30.9**	mg/L		03/31/16 15:58
		0.40		Nitrate as N	**1.42**	mg/L		"
		0.5		Sulfate as SO4	**5.4**	mg/L		"
		10.0	SM 2540 C	Total Dissolved Solids (TDS)	**190**	mg/L		03/31/16 16:22
		24.4	SM2320B	Bicarbonate as HCO3	**54.7**	mg/L		03/31/16 15:02
		12.0		Carbonate as CO3	ND	mg/L		"
		6.8		Hydroxide as OH	ND	mg/L		"
		20.0		Total Alkalinity as CaCO3	**44.8**	mg/L		"
		NA	SM9223 (Colitag)	E. Coli	Absent	NA		03/31/16 14:20
		NA		Total Coliform	Absent	NA		"

Kanti Gandhi
Chemist

Donna Keller
Laboratory Director

Certification # 2585

Exhibit 12

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # C6C3112 **Project: Linwood Discharge** **Date:** 04/01/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 03/31/16

Inorganic Chemistry - Quality Control
GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch C000897 - NO PREP				**Prepared: 03/31/16 Analyzed: 04/01/16**						
Blank (C000897-BLK1)										
Total Alkalinity as CaCO3	ND	20.0	mg/L							
LCS (C000897-BS1)										
Total Alkalinity as CaCO3	38.8	20.0	mg/L	40.00		97	80-120			
LCS Dup (C000897-BSD1)										
Total Alkalinity as CaCO3	39.1	20.0	mg/L	40.00		98	80-120	0.6	10	
Matrix Spike (C000897-MS1)		**Source: C6C2801-01**								
Total Alkalinity as CaCO3	233	20.0	mg/L	40.00	200	84	80-120			
Matrix Spike Dup (C000897-MSD1)		**Source: C6C2801-01**								
Total Alkalinity as CaCO3	234	20.0	mg/L	40.00	200	86	80-120	0.3	20	
Batch C000901 - NO PREP				**Prepared: 03/31/16 Analyzed: 04/01/16**						
Blank (C000901-BLK1)										
Chloride	ND	1.0	mg/L							
Nitrate as N	ND	0.40	"							
Sulfate as SO4	ND	0.5	"							
LCS (C000901-BS1)										
Chloride	50.6	1.0	mg/L	50.00		101	80-120			
Nitrate as N	48.6	0.40	"	50.00		97	85-115			
Sulfate as SO4	53.2	0.5	"	50.00		106	80-120			
LCS Dup (C000901-BSD1)										
Chloride	50.5	1.0	mg/L	50.00		101	80-120	0.2	20	
Nitrate as N	48.6	0.40	"	50.00		97	85-115	0.006	20	
Sulfate as SO4	52.7	0.5	"	50.00		105	80-120	0.9	20	
Matrix Spike (C000901-MS1)		**Source: C6C3117-01**								
Chloride	38.7	1.0	mg/L	10.00	33.1	56	80-120			QM-07
Nitrate as N	13.6	0.40	"	10.00	3.81	98	85-115			
Sulfate as SO4	25.7	0.5	"	10.00	17.7	80	80-120			

GeoAnalytical Laboratories, Inc.

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Report # C6C3112 **Project: Linwood Discharge** **Date:** 04/01/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 03/31/16

Inorganic Chemistry - Quality Control
GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch C000901 - NO PREP				**Prepared: 03/31/16 Analyzed: 04/01/16**						
Matrix Spike Dup (C000901-MSD1)		**Source: C6C3117-01**								
Chloride	38.7	1.0	mg/L	10.00	33.1	56	80-120	0.1	20	QM-07
Nitrate as N	13.6	0.40	"	10.00	3.81	98	85-115	0.2	20	
Sulfate as SO4	25.8	0.5	"	10.00	17.7	80	80-120	0.3	20	
Batch C000904 - NO PREP				**Prepared: 03/31/16 Analyzed: 04/01/16**						
Blank (C000904-BLK1)										
Total Dissolved Solids (TDS)	ND	10.0	mg/L							
Duplicate (C000904-DUP1)		**Source: C6C3118-01**								
Total Dissolved Solids (TDS)	649	10.0	mg/L		642			1	10	
Batch C000905 - NONE				**Prepared & Analyzed: 04/01/16**						
Blank (C000905-BLK1)										
Calcium	ND	1.0	mg/L							
Magnesium	ND	1.0	"							
Potassium	ND	1.0	"							
Sodium	ND	1.0	"							
LCS (C000905-BS1)										
Calcium	10.1	1.0	mg/L	10.00		101	80-120			
Magnesium	10.2	1.0	"	10.00		102	80-120			
Potassium	9.43	1.0	"	10.00		94	80-120			
Sodium	10.4	1.0	"	10.00		104	80-120			
LCS Dup (C000905-BSD1)										
Calcium	10.2	1.0	mg/L	10.00		102	80-120	0.4	20	
Magnesium	10.2	1.0	"	10.00		102	80-120	0.3	20	
Potassium	9.43	1.0	"	10.00		94	80-120	0.04	20	
Sodium	10.3	1.0	"	10.00		103	80-120	0.9	20	

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # C6C3112 **Project: Linwood Discharge** **Date:** 04/01/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 03/31/16

Inorganic Chemistry - Quality Control

GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch C000905 - NONE				**Prepared & Analyzed: 04/01/16**						
Matrix Spike (C000905-MS1)		**Source: C6C3109-01**								
Calcium	89.3	1.0	mg/L	10.00	79.6	97	80-120			
Magnesium	38.2	1.0	"	10.00	28.8	93	80-120			
Potassium	14.8	1.0	"	10.00	3.25	116	80-120			
Sodium	115	1.0	"	10.00	104	104	80-120			
Matrix Spike Dup (C000905-MSD1)		**Source: C6C3109-01**								
Calcium	88.0	1.0	mg/L	10.00	79.6	84	80-120	1	20	
Magnesium	38.1	1.0	"	10.00	28.8	92	80-120	0.3	20	
Potassium	14.8	1.0	"	10.00	3.25	116	80-120	0.1	20	
Sodium	115	1.0	"	10.00	104	109	80-120	0.4	20	

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # C6C3112 **Project: Linwood Discharge** **Date:** 04/01/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 03/31/16

Microbiology - Quality Control
GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch C000900 - BIO				**Prepared: 03/31/16 Analyzed: 04/01/16**						
Blank (C000900-BLK1)										
E. Coli	Absent		NA							
Total Coliform	Absent		"							
Duplicate (C000900-DUP1)		**Source: C6C3110-01**								
E. Coli	Absent		NA		0.0				0	
Total Coliform	Absent		"		0.0				0	
Duplicate (C000900-DUP2)		**Source: C6C3107-01**								
E. Coli	Absent		NA		0.0				0	
Total Coliform	Absent		"		0.0				0	

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # C6C3112 **Project: Linwood Discharge** **Date:** 04/01/16

R & J Avila
8119 Ellington Avenue
Hilmar, CA 95324

Date Rec'd: 03/31/16

Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
A	Absent
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
RL	Reporting Limit
NA	Not Applicable

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr
Turlock, CA 95380

Phone: (209) 669 0100
Fax: (209) 593 2212

Lab Report # CL3112

Regulatory ☐ Yes ☐ No CC: ☐ Yes ☐ No

Regulator:

Phone: (209) 669-7919

Fax: (209) 250-1919

Original To: frontdesk@randjavila.com

C.C To:

Client: R & J Avila, Inc.

Address: 8119 Ellington Ave

City Hilmar Zip 95324

CHAIN OF CUSTODY

☐ EDF ☐ EDT

☐ FIELD LOGS

Project ID Linwood Discharge

Sampled By (Print Name) Rui Avila

(Signature) R. Avila

Date	Time	Sample type Grab	Sample type Comp	Matrix	Sample ID	Container Type	Container Size	No. Of Containers	Nitrate as N	TDS	E. Coli (P/A)	Total Coliform (P/A)	Ca, Mg, Na, K	Bicarbonate	Carbonate	Sulfate	Chloride	Lab Use Only: Lab ID #	Lab Use Only: Preservative
3-31-16	12:06 pm	✓			4207 Linwood		1L	1	✓	✓			✓	✓	✓	✓	✓		
3-31-16	12:06 pm	✓			4207 Linwood		100ml	1			✓	✓						501	

5°C

Relinquished by (Signature)	Date	Time	Received by (Signature)	Date	Time
[signature]	3-31-16	1:40	[signature]	3-31-16	1:40
Relinquished by (Signature)	Date	Time	Received by (Signature)	Date	Time

Preservative: 1 4°C 2 HCL 3 NaOH 4 $Na_2S_2O_3$ 5 HNO_3 6 H_2SO_4 7 Other _____

Matrix: DW Drinking Water WW Waste Water HWW Hazardous Waste (Water) S Soil/Solid

Bailers _____ 55 Gallon Drums _____

Pump Truck ☐ Time Mileage

Turnaround Time ☐ Standard ☐ Silver Rush ☐ Gold Rush ☐ Platinum Rush ☐ Other

Approved By:

Exhibit 12

ATTACHMENT C

FIELD FORMS

DOMESTIC WELL SAMPLING LOG

Project Site/Name: 4600 Linwood	Date:	Field Personnel: **R & J AVILA, INC.**
Day:	3-31-16	Weather :

Well Vault Type		Floating Product (Free Phase): ___ Yes _____ No
Lock Number/Type		Floating Product (Free Phase) Thickness: _____ (ft.)
Drums Filled/Used		Floating Product (Free Phase) Description: _____
Well Physical Condition/Notes: _____		

Well Data		Water level measurement technique
Static Depth to Water-ft [A]		(Circle) Electrical Sounder Serial # _____
Total Depth of Casing-ft [B]		Purge Method: Grundfos Sub. Pneumatic
Water Column Height-ft [B-A]		(Circle) Electric Pump Hand Bail
Casing Diameter-in (circle)		Other _____
Casing Capacity-gal/ft (circle) [C]		Dedicated System: Yes No
Gallons per case volume (B-A)*C		pH Calibration: 4.0___ 7.0___ 10.0____ (Time:_____am)
Three case volume min. [(B-A)*C]3		EC Calibration: value for standard_____ units_____

Time	Gallons Purged	Casing Volumes	pH	EC	Temp °F °C	TurbidityNTU DO mg/L ORP mv	Remarks (Color, Odor, Turbidity, etc.)
9:30			6.98	1027	19.8	351	
9:34			7.38	1013	19.8	336	
9:38			7.45	1012	19.9	305	
							Final DTW (ft) _____

Purge Pump time on		Discharge Measurement Method: (Circle) Bucket Tank Barrel Flowmeter
Purge Pump time off		Sample Collection Method (check): _____ Direct from discharge hose
Total Gallons Purged		_____ Teflon Bailer
Purge Rate (gpm)		Disposable Bailer
Sample Rate (ml/min)		Ice Chest Coolant (check) ___Crushed Ice ____Blue Ice Ice Chest Temp _____(°F)

Sample Time	Analyses to Perform	Volume Collected	Container Style/Type/Qty	Other
9:40				

Observations/Notes:	

Exhibit 12

DOMESTIC WELL SAMPLING LOG

Project Site/Name: 1600 S. WASHINGTON	Date:	Field Personnel: R & J AVILA, INC.
Day:	3-31-16	Weather :

Well Vault Type		Floating Product (Free Phase): ___ Yes _____ No
Lock Number/Type		Floating Product (Free Phase) Thickness: _____ (ft.)
Drums Filled/Used		Floating Product (Free Phase) Description: _____
Well Physical Condition/Notes: _____		

Well Data		Water level measurement technique
Static Depth to Water-ft [A]		(Circle) Electrical Sounder Serial # _____
Total Depth of Casing-ft [B]		Purge Method: Grundfos Sub. Pneumatic
Water Column Height-ft [B-A]		(Circle) Electric Pump Hand Bail
Casing Diameter-in (circle)		Other _____
Casing Capacity-gal/ft (circle) [C]		Dedicated System: Yes No
Gallons per case volume (B-A)*C		pH Calibration: 4.0___ 7.0___ 10.0____ (Time:_____am)
Three case volume min. [(B-A)*C]3		EC Calibration: value for standard_____ units_____

Time	Gallons Purged	Casing Volumes	pH	EC	Temp °F °C	TurbidityNTU DO mg/L ORP mv	Remarks (Color, Odor, Turbidity, etc.)
10:00 AM			8.28	460.1	19.0	190	
10:08 AM			8.23	460.7	18.9	173	
10:12 AM			8.19	460.4	18.8	172	
							Final DTW (ft) _____

Purge Pump time on		Discharge Measurement Method: (Circle) Bucket Tank Barrel Flowmeter
Purge Pump time off		Sample Collection Method (check): _____ Direct from discharge hose
Total Gallons Purged		_____ Teflon Bailer
Purge Rate (gpm)		Disposable Bailer
Sample Rate (ml/min)		Ice Chest Coolant (check) ___Crushed Ice ____Blue Ice Ice Chest Temp _____(°F)

Sample Time	Analyses to Perform	Volume Collected	Container Style/Type/Qty	Other
10:15 AM				

Observations/Notes:

Exhibit 12

DOMESTIC WELL SAMPLING LOG

Project Site/Name: 1624. S. WASHINGTON	Date:	Field Personnel: R & J AVILA, INC.
Day:	3-31-16	Weather :

Well Vault Type		Floating Product (Free Phase): ___ Yes _____ No
Lock Number/Type		Floating Product (Free Phase) Thickness: _____ (ft.)
Drums Filled/Used		Floating Product (Free Phase) Description: _____
Well Physical Condition/Notes: _____		

Well Data		Water level measurement technique
Static Depth to Water-ft [A]		(Circle) Electrical Sounder Serial # _____
Total Depth of Casing-ft [B]		Purge Method: Grundfos Sub. Pneumatic
Water Column Height-ft [B-A]		(Circle) Electric Pump Hand Bail
Casing Diameter-in (circle)		Other _____
Casing Capacity-gal/ft (circle) [C]		Dedicated System: Yes No
Gallons per case volume (B-A)*C		pH Calibration: 4.0___ 7.0___ 10.0____ (Time:_____am)
Three case volume min. [(B-A)*C]3		EC Calibration: value for standard_____ units_____

Time	Gallons Purged	Casing Volumes	pH	EC	Temp °F °C	TurbidityNTU DO mg/L ORP mv	Remarks (Color, Odor, Turbidity, etc.)
10:20 am			7.83	1300	19.0	241	
10:25 am			7.74	1293	19.2	241	
10:30 am			7.74	1285	19.1	236	
							Final DTW (ft) _____

Purge Pump time on		Discharge Measurement Method: (Circle) Bucket Tank Barrel Flowmeter
Purge Pump time off		Sample Collection Method (check): _____ Direct from discharge hose
Total Gallons Purged		_____ Teflon Bailer
Purge Rate (gpm)		Disposable Bailer
Sample Rate (ml/min)		Ice Chest Coolant (check) ___Crushed Ice ____Blue Ice Ice Chest Temp _____(°F)

Sample Time	Analyses to Perform	Volume Collected	Container Style/Type/Qty	Other
10:32 am				

Observations/Notes:	

Exhibit 12

DOMESTIC WELL SAMPLING LOG

Project Site/Name: 4530 LINWOOD	Date:	Field Personnel: R & J AVILA, INC.
Day:	3-31-16	Weather :

Well Vault Type		Floating Product (Free Phase): ___ Yes _____ No
Lock Number/Type		Floating Product (Free Phase) Thickness: _____ (ft.)
Drums Filled/Used		Floating Product (Free Phase) Description: _____
Well Physical Condition/Notes:		

Well Data		Water level measurement technique
Static Depth to Water-ft [A]		(Circle) Electrical Sounder Serial # _____
Total Depth of Casing-ft [B]		Purge Method: Grundfos Sub. Pneumatic
Water Column Height-ft [B-A]		(Circle) Electric Pump Hand Bail
Casing Diameter-in (circle)		Other _____
Casing Capacity-gal/ft (circle) [C]		Dedicated System: Yes No
Gallons per case volume (B-A)*C		pH Calibration: 4.0___ 7.0___ 10.0____ (Time:_____am)
Three case volume min. [(B-A)*C]3		EC Calibration: value for standard_____ units_____

Time	Gallons Purged	Casing Volumes	pH	EC	Temp °F °C	TurbidityNTU DO mg/L ORP mv	Remarks (Color, Odor, Turbidity, etc.)
9:45			7.79	1167	18.3	268	
9:48			7.74	1166	18.5	268	
9:53			7.71	1164	18.5	266	
							Final DTW (ft) _____

Purge Pump time on		Discharge Measurement Method: (Circle) Bucket Tank Barrel Flowmeter
Purge Pump time off		Sample Collection Method (check): _____ Direct from discharge hose
Total Gallons Purged		_____ Teflon Bailer
Purge Rate (gpm)		Disposable Bailer
Sample Rate (ml/min)		Ice Chest Coolant (check) ___Crushed Ice ____Blue Ice Ice Chest Temp _____(°F)

Sample Time	Analyses to Perform	Volume Collected	Container Style/Type/Qty	Other
9:55				

Observations/Notes:

Exhibit 12

DOMESTIC WELL SAMPLING LOG

Project Site/Name: 4500 LINWOOD	Date:	Field Personnel: R & J AVILA, INC.
Day:	3-31-16	Weather :

Well Vault Type		Floating Product (Free Phase): ___ Yes _____ No
Lock Number/Type		Floating Product (Free Phase) Thickness: _____ (ft.)
Drums Filled/Used		Floating Product (Free Phase) Description: _____
Well Physical Condition/Notes: _____		

Well Data		Water level measurement technique
Static Depth to Water-ft [A]		(Circle) Electrical Sounder Serial # _____
Total Depth of Casing-ft [B]		Purge Method: Grundfos Sub. Pneumatic
Water Column Height-ft [B-A]		(Circle) Electric Pump Hand Bail
Casing Diameter-in (circle)		Other _____
Casing Capacity-gal/ft (circle) [C]		Dedicated System: Yes No
Gallons per case volume (B-A)*C		pH Calibration: 4.0___ 7.0___ 10.0____ (Time:_____am)
Three case volume min. [(B-A)*C]3		EC Calibration: value for standard_____ units_____

Time	Gallons Purged	Casing Volumes	pH	EC	Temp °F °C	TurbidityNTU DO mg/L ORP mv	Remarks (Color, Odor, Turbidity, etc.)
10:59 Am			8.49	320.8	19.9	74	
11:04 Am			8.45	309.6	20.6	67	
11:08 Am			8.45	309.7	20.6	65	
							Final DTW (ft) _____

Purge Pump time on		Discharge Measurement Method: (Circle) Bucket Tank Barrel Flowmeter
Purge Pump time off		Sample Collection Method (check): _____ Direct from discharge hose
Total Gallons Purged		_____ Teflon Bailer
Purge Rate (gpm)		Disposable Bailer
Sample Rate (ml/min)		Ice Chest Coolant (check) ___Crushed Ice ____Blue Ice Ice Chest Temp _____(°F)

Sample Time	Analyses to Perform	Volume Collected	Container Style/Type/Qty	Other
11:10 Am				

Observations/Notes:

Exhibit 12

DOMESTIC WELL SAMPLING LOG

Project Site/Name: 4406 LINWOOD	Date:	Field Personnel: R & J AVILA, INC.
Day:	3-31-16	Weather :

Well Vault Type		Floating Product (Free Phase): ___ Yes _____ No
Lock Number/Type		Floating Product (Free Phase) Thickness: _____ (ft.)
Drums Filled/Used		Floating Product (Free Phase) Description: _____
Well Physical Condition/Notes: _____		

Well Data		Water level measurement technique
Static Depth to Water-ft [A]		(Circle) Electrical Sounder Serial # _____
Total Depth of Casing-ft [B]		Purge Method: Grundfos Sub. Pneumatic
Water Column Height-ft [B-A]		(Circle) Electric Pump Hand Bail
Casing Diameter-in (circle)		Other _____
Casing Capacity-gal/ft (circle) [C]		Dedicated System: Yes No
Gallons per case volume (B-A)*C		pH Calibration: 4.0___ 7.0___ 10.0____ (Time:_____am)
Three case volume min. [(B-A)*C]3		EC Calibration: value for standard_____ units_____

Time	Gallons Purged	Casing Volumes	pH	EC	Temp °F °C	TurbidityNTU DO mg/L ORP mv	Remarks (Color, Odor, Turbidity, etc.)
11:09 am			7.84	1422	18.5	171	
11:15 am			7.76	1424	18.5	168	
11:18 am			7.71	1420	18.5	167	
							Final DTW (ft) _____

Purge Pump time on		Discharge Measurement Method: (Circle) Bucket Tank Barrel Flowmeter
Purge Pump time off		Sample Collection Method (check): _____ Direct from discharge hose
Total Gallons Purged		_____ Teflon Bailer
Purge Rate (gpm)		Disposable Bailer
Sample Rate (ml/min)		Ice Chest Coolant (check) ___Crushed Ice ____Blue Ice Ice Chest Temp _____(°F)

Sample Time	Analyses to Perform	Volume Collected	Container Style/Type/Qty	Other
11:20 am				

Observations/Notes:

Exhibit 12

DOMESTIC WELL SAMPLING LOG

Project Site/Name: 4318 Linwood	Date:	Field Personnel: R & J AVILA, INC.
Day:	3-31-16	Weather :

Well Vault Type		Floating Product (Free Phase): ___ Yes _____ No
Lock Number/Type		Floating Product (Free Phase) Thickness: _____ (ft.)
Drums Filled/Used		Floating Product (Free Phase) Description: _____
Well Physical Condition/Notes: _____		

Well Data		Water level measurement technique
Static Depth to Water-ft [A]		(Circle) Electrical Sounder Serial # _____
Total Depth of Casing-ft [B]		Purge Method: Grundfos Sub. Pneumatic
Water Column Height-ft [B-A]		(Circle) Electric Pump Hand Bail
Casing Diameter-in (circle)		Other _____
Casing Capacity-gal/ft (circle) [C]		Dedicated System: Yes No
Gallons per case volume (B-A)*C		pH Calibration: 4.0___ 7.0___ 10.0____ (Time:_____am)
Three case volume min. [(B-A)*C]3		EC Calibration: value for standard_____ units_____

Time	Gallons Purged	Casing Volumes	pH	EC	Temp °F °C	TurbidityNTU DO mg/L ORP mv	Remarks (Color, Odor, Turbidity, etc.)
11:27 am			7.70	1913	19.3	163	
11:30 am			7.60	1914	19.3	162	
11:33 am			7.57	1915	19.3	162	
							Final DTW (ft) _____

Purge Pump time on		Discharge Measurement Method: (Circle) Bucket Tank Barrel Flowmeter
Purge Pump time off		Sample Collection Method (check): _____ Direct from discharge hose
Total Gallons Purged		_____ Teflon Bailer
Purge Rate (gpm)		Disposable Bailer
Sample Rate (ml/min)		Ice Chest Coolant (check) ___Crushed Ice ____Blue Ice Ice Chest Temp _____(°F)

Sample Time	Analyses to Perform	Volume Collected	Container Style/Type/Qty	Other
11:35 am				

Observations/Notes:

Exhibit 12

DOMESTIC WELL SAMPLING LOG

Project Site/Name: 4230 LINWOOD	Date:	Field Personnel: R & J AVILA, INC.
Day:	3-31-16	Weather :

Well Vault Type		Floating Product (Free Phase): ___ Yes _____ No
Lock Number/Type		Floating Product (Free Phase) Thickness: _____ (ft.)
Drums Filled/Used		Floating Product (Free Phase) Description: _____
Well Physical Condition/Notes:		

Well Data		Water level measurement technique
Static Depth to Water-ft [A]		(Circle) Electrical Sounder Serial # _____
Total Depth of Casing-ft [B]		Purge Method: Grundfos Sub. Pneumatic
Water Column Height-ft [B-A]		(Circle) Electric Pump Hand Bail
Casing Diameter-in (circle)		Other _____
Casing Capacity-gal/ft (circle) [C]		Dedicated System: Yes No
Gallons per case volume (B-A)*C		pH Calibration: 4.0___ 7.0___ 10.0____ (Time:_____am)
Three case volume min. [(B-A)*C]3		EC Calibration: value for standard_____ units_____

Time	Gallons Purged	Casing Volumes	pH	EC	Temp °F °C	TurbidityNTU DO mg/L ORP mv	Remarks (Color, Odor, Turbidity, etc.)
11:38 AM			8.17	1409	20.0	188	
11:41 AM			7.88	1411	19.9	187	
11:45 AM			7.81	1412	19.8	185	
							Final DTW (ft) _____

Purge Pump time on		Discharge Measurement Method: (Circle) Bucket Tank Barrel Flowmeter
Purge Pump time off		Sample Collection Method (check): _____ Direct from discharge hose
Total Gallons Purged		_____ Teflon Bailer
Purge Rate (gpm)		Disposable Bailer
Sample Rate (ml/min)		Ice Chest Coolant (check) ___Crushed Ice ____Blue Ice Ice Chest Temp _____(°F)

Sample Time	Analyses to Perform	Volume Collected	Container Style/Type/Qty	Other
11:47 AM				

Observations/Notes:

Exhibit 12

DOMESTIC WELL SAMPLING LOG

Project Site/Name: 4207 Linwood	Date:	Field Personnel: R & J AVILA, INC.
Day:	3-31-16	Weather :

Well Vault Type		Floating Product (Free Phase): ___ Yes _____ No
Lock Number/Type		Floating Product (Free Phase) Thickness: _____ (ft.)
Drums Filled/Used		Floating Product (Free Phase) Description: _____
Well Physical Condition/Notes:		

Well Data		Water level measurement technique
Static Depth to Water-ft [A]		(Circle) Electrical Sounder Serial # _____
Total Depth of Casing-ft [B]		Purge Method: Grundfos Sub. Pneumatic
Water Column Height-ft [B-A]		(Circle) Electric Pump Hand Bail
Casing Diameter-in (circle)		Other _____
Casing Capacity-gal/ft (circle) [C]		Dedicated System: Yes No
Gallons per case volume (B-A)*C		pH Calibration: 4.0___ 7.0___ 10.0____ (Time:_____am)
Three case volume min. [(B-A)*C]3		EC Calibration: value for standard_____ units_____

Time	Gallons Purged	Casing Volumes	pH	EC	Temp °F °C	TurbidityNTU DO mg/L ORP mv	Remarks (Color, Odor, Turbidity, etc.)
11:56 Am			8.97	296.3	21.7	171	
12:00 pm			8.84	295.7	21.5	170	
12:03 pm			8.80	296.8	21.4	170	
							Final DTW (ft) _____

Purge Pump time on		Discharge Measurement Method: (Circle) Bucket Tank Barrel Flowmeter
Purge Pump time off		Sample Collection Method (check): _____ Direct from discharge hose
Total Gallons Purged		_____ Teflon Bailer
Purge Rate (gpm)		Disposable Bailer
Sample Rate (ml/min)		Ice Chest Coolant (check) ___Crushed Ice ____Blue Ice Ice Chest Temp _____(°F)

Sample Time	Analyses to Perform	Volume Collected	Container Style/Type/Qty	Other
12:06 pm				

Observations/Notes:	

Exhibit 12

DOMESTIC WELL SAMPLING LOG

Project Site/Name: 4200 Linwood	Date:	Field Personnel: R & J AVILA, INC.
Day:	3-31-16	Weather :

Well Vault Type		Floating Product (Free Phase): ___ Yes _____ No
Lock Number/Type		Floating Product (Free Phase) Thickness: _____ (ft.)
Drums Filled/Used		Floating Product (Free Phase) Description: _____
Well Physical Condition/Notes: _____		

Well Data		
Static Depth to Water-ft [A]		Water level measurement technique (Circle) Electrical Sounder Serial # _____
Total Depth of Casing-ft [B]		Purge Method: Grundfos Sub. Pneumatic
Water Column Height-ft [B-A]		(Circle) Electric Pump Hand Bail
Casing Diameter-in (circle)		Other _____
Casing Capacity-gal/ft (circle) [C]		Dedicated System: Yes No
Gallons per case volume (B-A)*C		pH Calibration: 4.0___ 7.0___ 10.0____ (Time:_____am)
Three case volume min. [(B-A)*C]3		EC Calibration: value for standard_____ units_____

Time	Gallons Purged	Casing Volumes	pH	EC	Temp °F °C	TurbidityNTU DO mg/L ORP mv	Remarks (Color, Odor, Turbidity, etc.)
12:07 pm			8.11	1315	18.7	207	
12:10 pm			8.10	1309	18.7	204	
12:14 pm			7.92	1310	18.6	203	
							Final DTW (ft) _____

Purge Pump time on		Discharge Measurement Method: (Circle) Bucket Tank Barrel Flowmeter
Purge Pump time off		Sample Collection Method (check): _____ Direct from discharge hose
Total Gallons Purged		_____ Teflon Bailer
Purge Rate (gpm)		Disposable Bailer
Sample Rate (ml/min)		Ice Chest Coolant (check) ___Crushed Ice ____Blue Ice Ice Chest Temp _____(°F)

Sample Time	Analyses to Perform	Volume Collected	Container Style/Type/Qty	Other
12:15 pm				

Observations/Notes:

Exhibit 12

DOMESTIC WELL SAMPLING LOG

Project Site/Name: 3928 LINWOOD	Date:	Field Personnel: R & J AVILA, INC.
Day:	3-31-16	Weather :

Well Vault Type		Floating Product (Free Phase): ___ Yes _____ No
Lock Number/Type		Floating Product (Free Phase) Thickness: _____ (ft.)
Drums Filled/Used		Floating Product (Free Phase) Description: _____
Well Physical Condition/Notes: _____		

Well Data		Water level measurement technique
Static Depth to Water-ft [A]		(Circle) Electrical Sounder Serial # _____
Total Depth of Casing-ft [B]		Purge Method: Grundfos Sub. Pneumatic
Water Column Height-ft [B-A]		(Circle) Electric Pump Hand Bail
Casing Diameter-in (circle)		Other _____
Casing Capacity-gal/ft (circle) [C]		Dedicated System: Yes No
Gallons per case volume (B-A)*C		pH Calibration: 4.0___ 7.0___ 10.0____ (Time:_____am)
Three case volume min. [(B-A)*C]3		EC Calibration: value for standard_____ units_____

Time	Gallons Purged	Casing Volumes	pH	EC	Temp °F °C	TurbidityNTU DO mg/L ORP mv	Remarks (Color, Odor, Turbidity, etc.)
12:30 pm			8.51	868.0	20.1	246	
12:35 pm			8.19	877.2	19.7	228	
12:38 pm			8.02	877.3	19.6	225	
							Final DTW (ft) _____

Purge Pump time on		Discharge Measurement Method: (Circle) Bucket Tank Barrel Flowmeter
Purge Pump time off		Sample Collection Method (check): _____ Direct from discharge hose
Total Gallons Purged		_____ Teflon Bailer
Purge Rate (gpm)		Disposable Bailer
Sample Rate (ml/min)		Ice Chest Coolant (check) ___Crushed Ice ____Blue Ice Ice Chest Temp _____(°F)

Sample Time	Analyses to Perform	Volume Collected	Container Style/Type/Qty	Other
12:40 pm				

Observations/Notes:	

Exhibit 12

ATTACHMENT D

DOMESTIC WELL PHOTO LOG

Client Name: CMC Landholdings, LLC **Photo Date:** February 15, 2016

Project: 4207 West Linwood Avenue, Turlock, California

Photograph 1: *1600 South Washington Road, Turlock, California*

Photograph 2: *1624 South Washington Road, Turlock, California.*

Client Name: CMC Landholdings, LLC **Photo Date:** February 15, 2016

Project: 4207 West Linwood Avenue, Turlock, California

Photograph 3: *4030 West Linwood Avenue, Turlock, California.*

Photograph 4: *4200 West Linwood Avenue, Turlock, California.*

Client Name: CMC Landholdings, LLC **Photo Date:** February 15, 2016

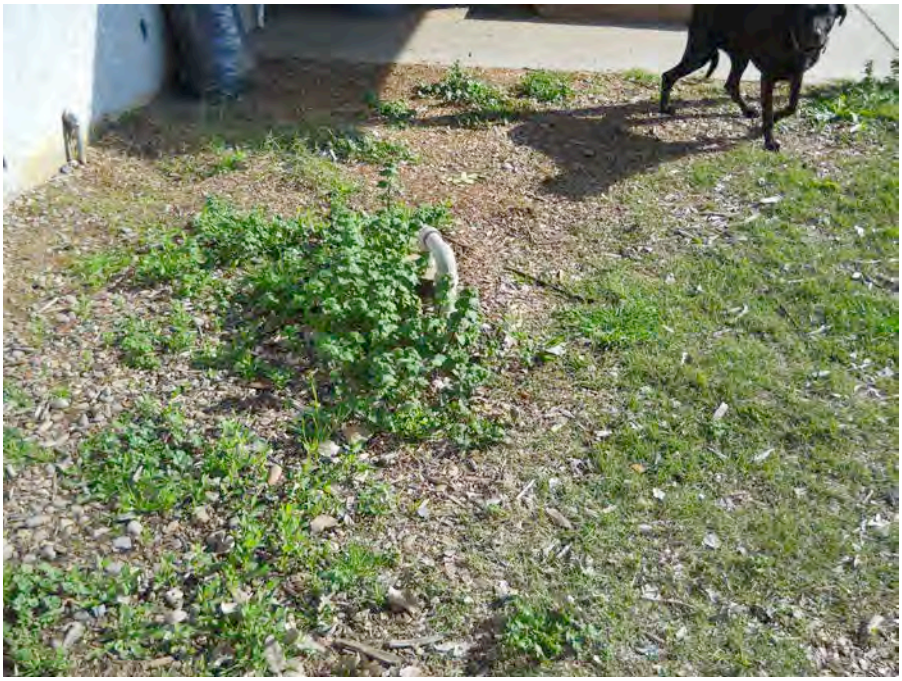
Project: 4207 West Linwood Avenue, Turlock, California

Photograph 5: *4207 West Linwood Avenue, Turlock, California.*

Photograph 6: *4230 West Linwood Avenue, Turlock, California.*

Client Name: CMC Landholdings, LLC **Photo Date:** February 15, 2016

Project: 4207 West Linwood Avenue, Turlock, California



Photograph 7: *4318 West Linwood Avenue, Turlock, California.*

Photograph 8: *4406 West Linwood Avenue, Turlock, California.*

Client Name: CMC Landholdings, LLC **Photo Date:** February 15, 2016

Project: 4207 West Linwood Avenue, Turlock, California

Photograph 9: *4500 West Linwood Avenue, Turlock, California.*

Photograph 10: *4530 West Linwood Avenue, Turlock, California.*

Client Name: CMC Landholdings, LLC **Photo Date:** February 15, 2016

Project: 4207 West Linwood Avenue, Turlock, California

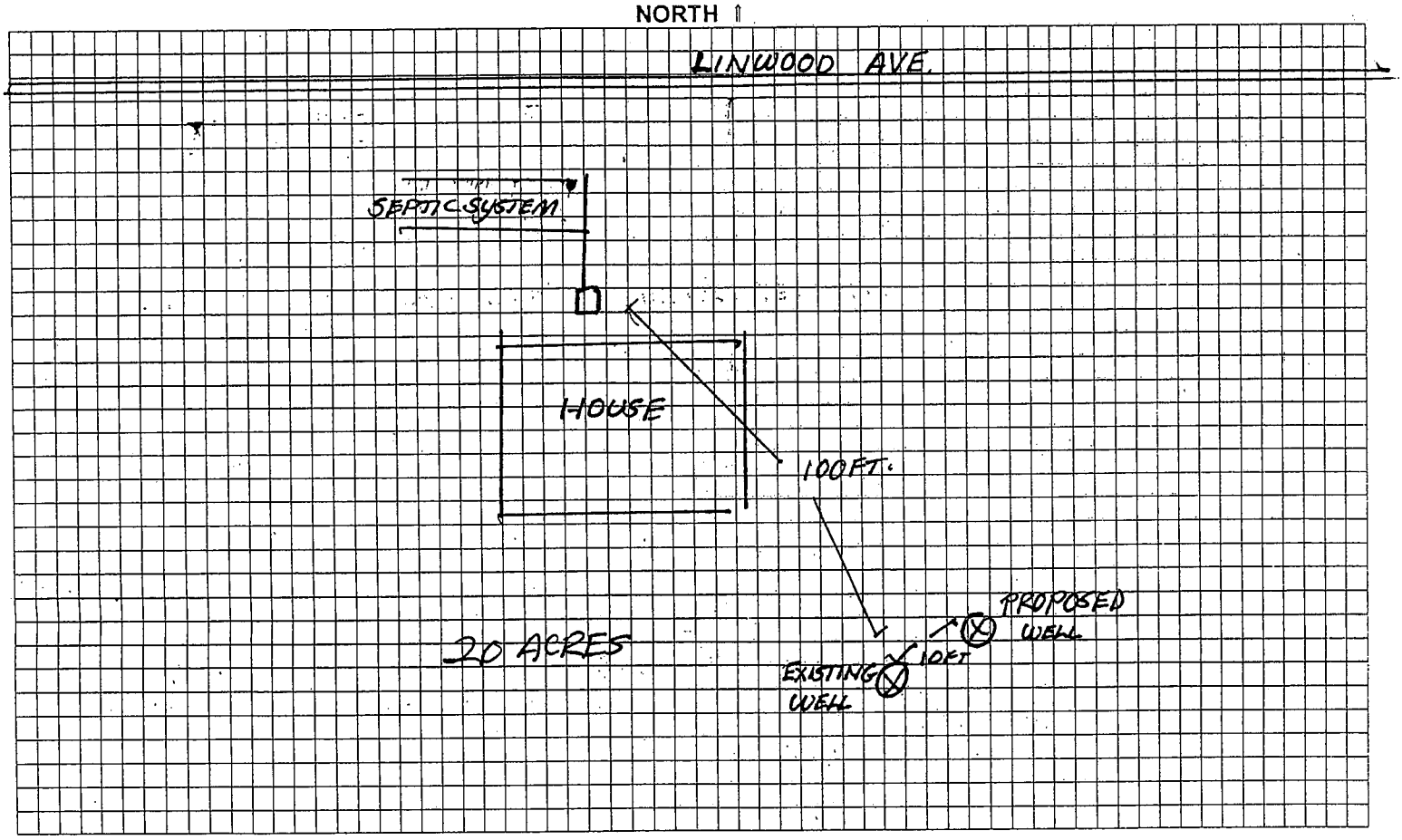
Photograph 11: *4600 West Linwood Avenue, Turlock, California.*

PLOT PLAN
(Indicate Distances in Feet)

055/10E-29 2/2

1. Name of street and distance from nearest cross roads to well site.
2. Outline of the property, easements.
3. Outlines and locations of all existing and proposed structures, including covered areas such as patios, driveways, and walks.
4. Location of house sewer outlet, public sewer, sewage disposal system, or proposed sewage disposal system, proposed expansion of sewage disposal system, industrial waste pond, or any other possible source of contamination.
5. Location of other wells within radius of 300 feet on the property or adjoining property.
6. Location of sewage disposal system on adjoining property or within a radius of 100 ft. (private well) 150 ft. (public well).

NORTH ⇑



Written description of well location (if not visible from road): _____

I HEREBY CERTIFY THAT I HAVE PREPARED THIS APPLICATION AND THAT THE WORK WILL BE DONE IN ACCORDANCE WITH THE PROVISIONS OF THE LAWS OF THE STATE OF CALIFORNIA, THE ORDINANCES OF THE COUNTY OF STANISLAUS AND THE RULES AND REGULATIONS OF THE STANISLAUS COUNTY DEPARTMENT OF ENVIRONMENTAL RESOURCES (DER). DER WILL BE CONTACTED FOR INSPECTION OF ANNULAR SEAL INSTALLATION, AND AFTER WELL WORK HAS BEEN COMPLETED.

1. All existing wells within a 300 foot radius of the proposed new well(s) on the property or adjoining property have been located and so indicated.
2. Proposed well(s) will be located at least 50-100 feet from any sewage disposal system on property or adjoining property. Public well requires a distance of 100-150 feet from disposal system (100 ft. septic tank and leach lines, 150 ft. pits).
3. Submit well logs on all public wells drilled, as notice of well work completion.

SIGNED: Blake Hennings DATE: 8/7/09
(OWNER OR AUTHORIZED REPRESENTATIVE)

F:\DATA\EHFORMS\Water\app for well const-destruct.wpd

Exhibit 12

ORIGINAL
File with DWR

Page 1 of 1

STATE OF CALIFORNIA

WELL COMPLETION REPORT

Refer to Instruction Pamphlet

No. 0925040

DWR USE ONLY — DO NOT FILL IN
05S/10E-20
STATE WELL NO./ STATION NO.
LATITUDE LONGITUDE
APN/TRS/OTHER

Owner's Well No. 2

Date Work Began 4/7/2004 Ended 4/9/2004

Local Permit Agency STANISLAUS CO DER

Permit No. 04-79 Permit Date 4/7/2004

GEOLOGIC LOG

ORIENTATION (✓) ✓ VERTICAL — HORIZONTAL — ANGLE — (SPECIFY)

DRILLING METHOD ROTARY FLUID MUD

DEPTH FROM SURFACE Ft.	to Ft.	DESCRIPTION *Describe material, grain, size, color, etc.*
0	35	SAND
35	40	CLAY
40	50	SAND
50	69	CLAY
69	71	SAND
71	83	CLAY
83	86	SAND
86	119	CLAY
119	126	FINE SAND
126	130	CLAY
130	134	FINE SAND
134	158	CLAY
158	214	BLUE CLAY
214	229	CLAY
229	233	SAND
233	245	CLAY
245	250	SAND
250	260	CLAY

TOTAL DEPTH OF BORING 260 (Feet)

TOTAL DEPTH OF COMPLETED WELL 255 (Feet)

WELL OWNER

[redacted]

CITY STATE ZIP

WELL LOCATION

Address 4207 W LINWOOD AVE

City TURLOCK CA 95380

County Stanislaus

APN Book ____ Page ____ Parcel ____

Township ____ Range ____ Section ____

Latitude ____ DEG. MIN. SEC. ____ DEG. MIN. SEC.

LOCATION SKETCH

NORTH

WEST EAST

SOUTH

Illustrate or Describe Distance of Well from Roads, Buildings, Fences, Rivers, etc. and attach a map. Use additional paper if necessary. **PLEASE BE ACCURATE & COMPLETE.**

ACTIVITY (✓)

✓ NEW WELL

MODIFICATION/REPAIR
— Deepen
— Other (Specify)

— DESTROY (Describe Procedures and Materials Under "GEOLOGIC LOG")

PLANNED USES (✓)

WATER SUPPLY
— Domestic — Public
— Irrigation — Industrial

MONITORING —
TEST WELL —
CATHODIC PROTECTION —
HEAT EXCHANGE —
DIRECT PUSH —
INJECTION —
VAPOR EXTRACTION —
SPARGING —
REMEDIATION —
OTHER (SPECIFY) ✓ DAIRY

WATER LEVEL & YIELD OF COMPLETED WELL

DEPTH TO FIRST WATER 36 (Ft.) BELOW SURFACE

DEPTH OF STATIC WATER LEVEL 36 (Ft.) & DATE MEASURED 4/9/2004

ESTIMATED YIELD * ____ (GPM) & TEST TYPE ____

TEST LENGTH ____ (Hrs.) TOTAL DRAWDOWN ____ (Ft.)

May not be representative of a well's long-term yield.

CASING (S)

DEPTH FROM SURFACE Ft.	to Ft.	BORE-HOLE DIA. (Inches)	TYPE (✓) BLANK	SCREEN	CONDUCTOR	FILL PIPE	MATERIAL / GRADE	INTERNAL DIAMETER (Inches)	GAUGE OR WALL THICKNESS	SLOT SIZE IF ANY (Inches)
0	225	16	✓				PLASTIC	8	SDR26	
225	255	16		✓			PLASTIC	8	SDR26	.048

ANNULAR MATERIAL

DEPTH FROM SURFACE Ft.	to Ft.	TYPE CEMENT (✓)	BENTONITE (✓)	FILL (✓)	FILTER PACK (TYPE/SIZE)
0	53		✓		
53	255				6X16 GRAVEL

ATTACHMENTS (✓)

— Geologic Log
— Well Construction Diagram
— Geophysical Log(s)
— Soil/Water Chemical Analysis
— Other ____

ATTACH ADDITIONAL INFORMATION, IF IT EXISTS.

CERTIFICATION STATEMENT

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief.

NAME CALWATER DRILLING CO., INC.
(PERSON, FIRM, OR CORPORATION) (TYPED OR PRINTED)

300 S. Kilroy Rd. Turlock CA 95380
ADDRESS CITY STATE ZIP

Signed G Miranda
WELL DRILLER/AUTHORIZED REPRESENTATIVE

07/06/04 DATE SIGNED

434218 C-57 LICENSE NUMBER

DWR 188 REV. 11-97

IF ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM

Exhibit 12

ORIGINAL
File with DWR

STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES

WATER WELL DRILLERS REPORT

Do not fill in

No. 250458

State Well No. 5S/10E-20
Other Well No.

Notice of Intent No.
Local Permit No. or Date 88-162

(1) OWN[redacted]
Address
City

(2) LOCATION OF WELL (See instructions):
County Stanislaus Owner's Well Number
Well address if different from above
Township Range Section
Distance from cities, roads, railroads, fences, etc.

WELL LOCATION SKETCH

(3) TYPE OF WORK:
New Well ☑ Deepening ☐
Reconstruction ☐
Reconditioning ☐
Horizontal Well ☐
Destruction ☐ (Describe destruction materials and procedures in Item 12)

(4) PROPOSED USE:
Domestic priv ☑
Irrigation ☐
Industrial ☐
Test Well ☐
Municipal ☐
Other ☐
(Describe)

(5) EQUIPMENT:
Rotary ☑ Reverse ☐
Cable ☐ Air ☐
Other ☐ Bucket ☐

(6) GRAVEL PACK:
Yes ☑ No ☐ Size Roofing
Diameter of bore 11"
Packed from 60 to 245 ft.

(7) CASING INSTALLED:
Steel ☐ Plastic ☑ Concrete ☐

(8) PERFORATIONS:
Type of perforation or size of screen

From ft.	To ft.	Dia. in.	Gage or Wall	From ft.	To ft.	Slot size
0	245	6	160 PSI	225	245	

(9) WELL SEAL:
Was surface sanitary seal provided? Yes ☑ No ☐ If yes, to depth 60 ft.
Were strata sealed against pollution? Yes ☐ No ☐ Interval ft.
Method of sealing Bentonite

(10) WATER LEVELS:
Depth of first water, if known ft.
Standing level after well completion ft.

(11) WELL TESTS:
Was well test made? Yes ☐ No ☐ If yes, by whom?
Type of test Pump ☐ Bailer ☐ Air lift ☐
Depth to water at start of test ft. At end of test ft.
Discharge gal/min after hours Water temperature
Chemical analysis made? Yes ☐ No ☐ If yes, by whom?
Was electric log made Yes ☐ No ☐ If yes, attach copy to this report

(12) WELL LOG: Total depth 250 ft. Completed depth 245 ft.

from ft.	to ft.	Formation (Describe by color, character, size or material)
0	22	sand
22	30	clay
30	40	sand
40	90	clay
90	95	red sand
95	120	clay
120	130	fine sand
130	154	clay
154	165	blue sand
165	210	blue clay
210	232	gray clay
232	245	sand
245	250	clay

CONFIDENTIAL
NOT FOR PUBLIC USE
WATER CODE SEC. 13752

CONFINED

Work started 19 Completed 5-24 1988

WELL DRILLER'S STATEMENT:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Signed M. Lowood, Bkkpr.
(Well Driller)
NAME Calwater Drilling Co. Inc.
(Person, firm, or corporation) (Typed or printed)
Address 300 S. Kilroy
City Turlock, Calif. ZIP 95380
License No. 321252 Date of this report 6-8-88

DWR 188 (REV. 12-86) IF ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM 86 96355

Exhibit 12

ORIGINAL

File with DWR

STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES
WATER WELL DRILLERS REPORT

Do not fill in

No. 064886

State Well No. 5/10-20

Other Well No.

Notice of Intent No.

Local Permit No. or Date 87-122

(1) OW[redacted]

Address

City

(2) LOCATION OF WELL (See instructions):

County Stanislaus Owner's Well Number

Well address if different from above

Township Range Section

Distance from cities, roads, railroads, fences, etc.

WELL LOCATION SKETCH

(3) TYPE OF WORK:

New Well ☑ Deepening ☐

Reconstruction ☐

Reconditioning ☐

Horizontal Well ☐

Destruction ☐ (Describe destruction materials and procedures in Item 12)

(4) PROPOSED USE:

Domestic priv ☑

Irrigation ☐

Industrial ☐

Test Well ☐

Stock ☐

Municipal ☐

Other ☐

(5) EQUIPMENT:

Rotary ☑ Reverse ☐

Cable ☐ Air ☐

Other ☐ Bucket ☐

(6) GRAVEL PACK:

Yes ☑ No ☐ Size Casing

Diameter of bore 11"

Packed from 150 to 220 ft.

(7) CASING INSTALLED:

Steel ☐ Plastic ☐ Concrete ☐

(8) PERFORATIONS:

Type of perforation or size of screen

From ft.	To ft.	Dia. in.	Gage or Wall	From ft.	To ft.	Slot size
0	220	6	160 PSI	200	220	

(9) WELL SEAL:

Was surface sanitary seal provided? Yes ☑ No ☐ If yes, to depth 150 ft.

Were strata sealed against pollution? Yes ☐ No ☐ Interval ft.

Method of sealing Bentonite

(10) WATER LEVELS:

Depth of first water, if known ft.

Standing level after well completion ft.

(11) WELL TESTS:

Was well test made? Yes ☐ No ☐ If yes, by whom?

Type of test Pump ☐ Bailer ☐ Air lift ☐

Depth to water at start of test ft. At end of test ft

Discharge gal/min after hours Water temperature

Chemical analysis made? Yes ☐ No ☐ If yes, by whom?

Was electric log made? Yes ☐ No ☐ If yes, attach copy to this report

(12) WELL LOG: Total depth 222 ft. Depth of completed well 220 ft.

from ft.	to ft.	Formation (Describe by color, character, size or material)
0	2	Top soil
2	10	Sand
10	12	Clay
12	17	Sand
17	25	Clay
25	40	Sand
40	45	Clay
45	60	Sand
60	90	Clay
90	95	Sand
95	98	Clay
98	102	Sand
102	130	Clay
130	140	Fine sand
140	198	Blue clay & fine
198		sand streaks
198	210	Clay & sand streaks
210	220	Sand
220	222	Clay

CONFIDENTIAL NOT FOR PUBLIC USE WATER CODE SEC. 1526

CONFINED

Work started 19 Completed 5-1 1987

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

SIGNED M. L. Wood, Bkkpr. (Well Driller)

NAME Calwater Drilling Co, Inc. (Person, firm, or corporation) (Typed or printed)

Address 300 S. Kilroy

City Turlock, Cal. Zip 95380

License No. 321252 Date of this report 5-11-87

DWR 188 (REV. 7-76) IF ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM

Exhibit 12

ORIGINAL
File with DWR
Page 1 of 1
Owner's Well No. _____
Date Work Began 11/3/95, Ended 11/3/95
Local Permit Agency Stanislaus Co. Dept. of Env. Resources
Permit No. 95-193 Permit Date 11/2/95

STATE OF CALIFORNIA
WELL COMPLETION REPORT
Refer to Instruction Pamphlet

No. 475261

DWR USE ONLY — DO NOT FILL IN
SS/10E-20
STATE WELL NO./STATION NO.
LATITUDE LONGITUDE
APN/TRS/OTHER

GEOLOGIC LOG

ORIENTATION (✓) X VERTICAL ___ HORIZONTAL ___ ANGLE ___ (SPECIFY)
DEPTH TO FIRST WATER ___ (Ft.) BELOW SURFACE

DEPTH FROM SURFACE Ft.	to Ft.	DESCRIPTION *Describe material, grain size, color, etc.*
0	3	Top soil
3	9	Sand
9	13	Clay
13	21	Sand
21	26	Clay
26	51	Sand w/clay streaks
51	67	Clay
67	77	Sand
77	100	Pink clay & shale w/sand streaks
100	104	Sand
104	147	Clay
147	205	Blue clay
205	208	Fine sand
208	215	Blue clay
215 XXXX	225	Clay & brown shale
225	234	Brown coarse sand
234	240	Clay
240	247	Coarse brown sand
247	250	Clay
250	259	Coarse brown sand
259	269	Clay
269	272	Sand
272	280	Clay

CONFINED

TOTAL DEPTH OF BORING 280 (Feet)
TOTAL DEPTH OF COMPLETED WELL 265 (Feet)

WELL OWNER

Name [redacted]
Mailin[redacted]
CITY STATE ZIP

WELL LOCATION

Address Same
City
County Stanislaus
APN Book ___ Page ___ Parcel ___
or Township ___ Range ___ Section ___
or Latitude ___ DEG. MIN. SEC. NORTH Longitude ___ DEG. MIN. SEC. WEST

LOCATION SKETCH

NORTH
WEST EAST
SOUTH

Illustrate or Describe Distance of Well from Landmarks such as Roads, Buildings, Fences, Rivers, etc.
PLEASE BE ACCURATE & COMPLETE.

ACTIVITY (✓)

X NEW WELL
MODIFICATION/REPAIR
___ Deepen
___ Other (Specify)
___ DESTROY (Describe Procedures and Materials Under "GEOLOGIC LOG")

PLANNED USE(S) (✓)

___ MONITORING
WATER SUPPLY
X Domestic
___ Public
___ Irrigation
___ Industrial
___ "TEST WELL"
___ CATHODIC PROTECTION
___ OTHER (Specify)

DRILLING METHOD Mud rotary FLUID Water

WATER LEVEL & YIELD OF COMPLETED WELL

DEPTH OF STATIC WATER LEVEL 34 (Ft.) & DATE MEASURED 11/6/95
ESTIMATED YIELD* ___ (GPM) & TEST TYPE ___
TEST LENGTH ___ (Hrs.) TOTAL DRAWDOWN ___ (Ft.)
* *May not be representative of a well's long-term yield.*

CASING(S)

DEPTH FROM SURFACE Ft.	to Ft.	BORE-HOLE DIA. (Inches)	TYPE (✓) BLANK	SCREEN	CON-DUCTOR	FILL PIPE	MATERIAL/GRADE	INTERNAL DIAMETER (Inches)	GAUGE OR WALL THICKNESS	SLOT SIZE IF ANY (Inches)
0	245	11	XX				PVC	6	160	
245	265	"		XX			"	"	"	.062

ANNULAR MATERIAL

DEPTH FROM SURFACE Ft.	to Ft.	TYPE CE-MENT (✓)	BEN-TONITE (✓)	FILL (✓)	FILTER PACK (TYPE/SIZE)
0	24		X		
24	265				6X12 sand

ATTACHMENTS (✓)

___ Geologic Log
___ Well Construction Diagram
___ Geophysical Log(s)
___ Soil/Water Chemical Analyses
___ Other ___

ATTACH ADDITIONAL INFORMATION, IF IT EXISTS.

CERTIFICATION STATEMENT

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief.

NAME Calwater Drilling Co., Inc.
(PERSON, FIRM, OR CORPORATION) (TYPED OR PRINTED)
300 S. Kilroy Turlock, CA. 95380
ADDRESS CITY STATE ZIP
Signed Willadeen Chandler, Bkkpr. 11/7/95 434218
WELL DRILLER/AUTHORIZED REPRESENTATIVE DATE SIGNED C-57 LICENSE NUMBER

Exhibit 12

DWR 188 REV. 7-90

IF ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM

ORIGINAL
File with DWR

STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES

WATER WELL DRILLERS REPORT

Do Not Fill In

№ 66727

State Well No.

Other Well No. 5S/10E-20

(1) OWNER:

Nam[redacted]
Add[redacted]

(2) LOCATION OF WELL:

County Stanislaus Owner's number, if any

Township, Range, and Section 4406 Linwood

Distance from cities, roads, railroads, etc. 3 miles West of Turlock

(3) TYPE OF WORK (*check*):

New Well ☒ Deepening ☐ Reconditioning ☐ Destroying ☐

If destruction, describe material and procedure in Item 11.

(4) PROPOSED USE (*check*):

Domestic ☒ Industrial ☐ Municipal ☐
Irrigation ☐ Test Well ☐ Other ☐

(5) EQUIPMENT:

Rotary ☒
Cable ☐
Other ☐

(6) CASING INSTALLED:

STEEL: SINGLE ☒ DOUBLE ☐ OTHER:

From ft.	To ft.	Diam.	Gage or Wall	Diameter of Bore	If gravel packed From ft.	To ft.
0	90	6 5/8	12	10	80	90

Size of shoe or well ring: Size of gravel:

Describe joint

(7) PERFORATIONS OR SCREEN:

Type of perforation or name of screen

From ft.	To ft.	Perf. per row	Rows per ft.	Size in. x in.
80	90	10	6	1/8 X 2"

(8) CONSTRUCTION:

Was a surface sanitary seal provided? Yes ☐ No ☐ To what depth ft.

Were any strata sealed against pollution? Yes ☐ No ☐ If yes, note depth of strata

From ft. to ft.

From ft. to ft.

Method of sealing

(9) WATER LEVELS:

Depth at which water was first found, if known 4 ft.

Standing level before perforating, if known ft.

Standing level after perforating and developing ft.

(10) WELL TESTS:

Was pump test made? Yes ☐ No ☐ If yes, by whom?

Yield: gal./min. with ft. drawdown after hrs.

Temperature of water Was a chemical analysis made? Yes ☐ No ☐

Was electric log made of well? Yes ☐ No ☐ If yes, attach copy

(11) WELL LOG:

UNCONFINED

Total depth 90 ft. Depth of completed well 90 ft.

Formation: *Describe by color, character, size of material, and structure*

	ft. to ft.
Top soil	0 - 4
~~Clay~~ sand	4 - 10
Clay	10 - 85
Sand	85 - 90
Clay	90 - 91

CONFIDENTIAL
Water Code Sec. 13752

Work started 19 Completed 9/16 19 70

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME Olson Pump & Well Drilling
(Person, firm or corporation) (*Typed or printed*)

Address 1015 N 99 Hwy
Turlock Calif 95380

[SIGNED] Carey Olson
(*Well Driller*)

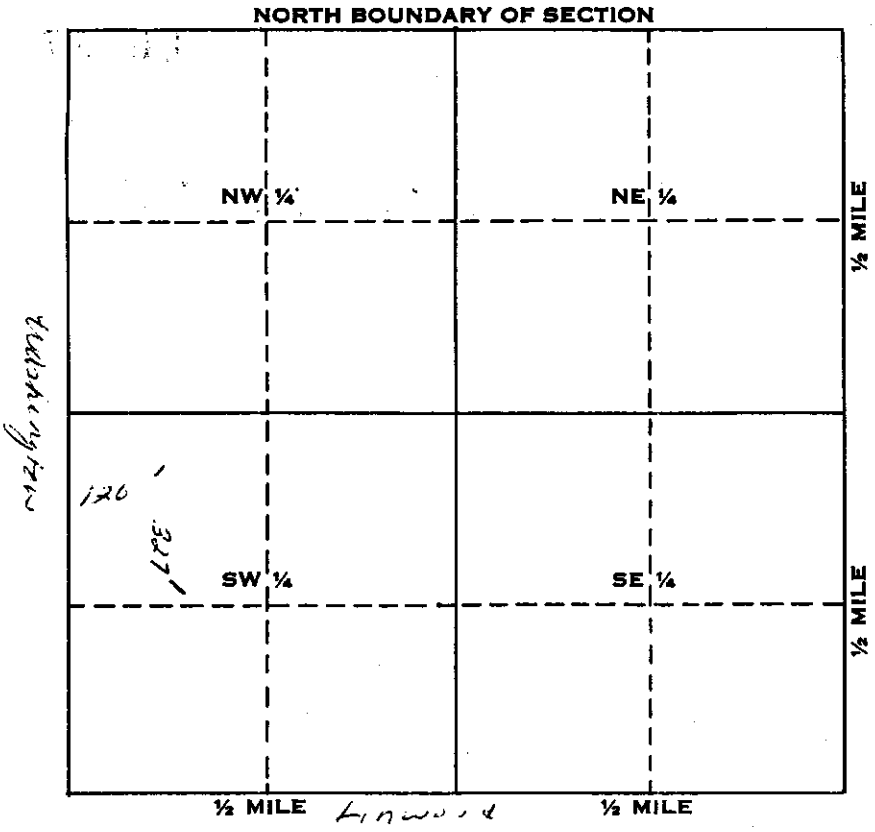
License No. 110637 Dated 10-10, 1970

SKETCH LOCATION OF WELL ON REVERSE SIDE

Exhibit 12

DWR 188 (REV. 9-68) No N.I. 25179-950 9-68 50M TRIP ΔD OSP

WELL LOCATION SKETCH

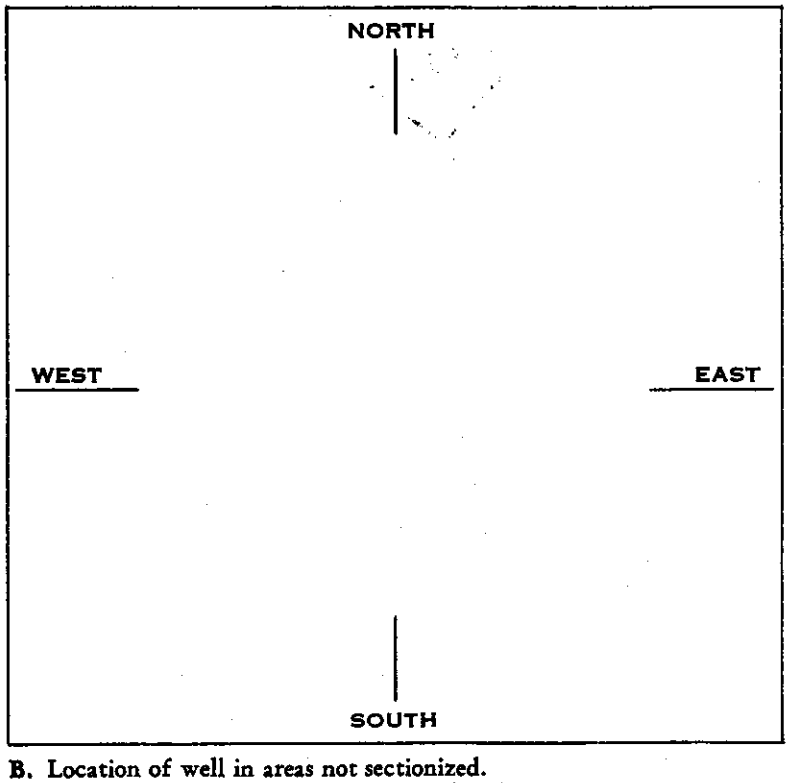


Township _____ N/S

Range _____ E/W

Section No. _____

A. Location of well in sectionized areas.
Sketch roads, railroads, streams, or other features as necessary.



B. Location of well in areas not sectionized.
Sketch roads, railroads, streams, or other features as necessary.
Indicate distances.

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SAN JOAQUIN DISTRICT

Exhibit 12

5/10-29R1

[redacted]

5S-10E-29R1

DRAINAGE WELL NO. 141

228

CONFIDENTIAL
Water Code Sec. 13752

MAP

PROFILE

LOG

Casing	Depth	Well	Type of Soil
79½' of 18" Perf.	6		Soil
	12		Hard pan
	20		Muddy sand
			Soft clay
	35		
			Clay
	94		Sand
	104		
138' of 16" Perf.			Sand + clay
	130		
			Clay
	160		Sand
	170		
			Blue clay
	215		Clay
	225		Sand
	227		
			Clay
	245		Sand
	255		

LOCATION Sec. 29-5-10. In S.E. Cor.

DRILLED BY: T.I.D. 78' deep 255' deep

DATE: April 1939 deepened March 1939

REMARKS: Test 1960 g.p.m. 27' drawdown

1680 g.p.m. 24' drawdown

1420 g.p.m. 21' drawdown

Static water 6'

5/10-29A1

5s-10E-29A1

[redacted] DRAINAGE WELL NO. 5.

227

LSD Elev 86

CONFIDENTIAL
Water Code Sec. 13752

MAP

PROFILE

LOG

Casing	Depth	Well	Type of Soil
40' of 16"	10		Top Soil.
	20		Clay
	30		Sand
	40		
	50		Clay
	60		
	70		
	80		Sand
	90		
	100		
	110		
	120		
	130		
	140		
	150		
	160		
	170		
	180		
	190		
	200		
	210		
	220		
	230		
	240		
	250		
	260		
	270		
	280		
	290		
	300		

LOCATION Beginning at the NE Cor. of Sec. 29-5-10 thence W 810.0 ft, thence S 20.0 ft.

DRILLED BY: Osterberg Bros. 70. ft. of 16" hole.

DATE: Aug. 25, 1922.

REMARKS: 500 g.p.m. 19 ft.
No pipe line.

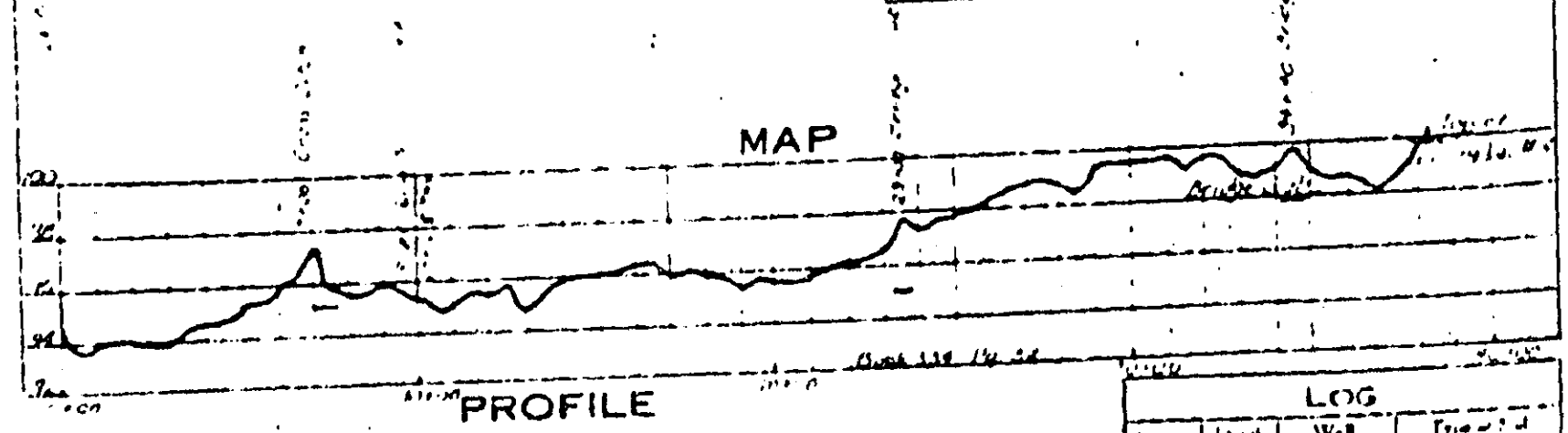
5/10-20A1

DRAINAGE WELL NO. 125

[redacted]

Elev. 27

	50	100	200
G			
S	4		
F		16	[illegible]
Cg			
C	36	34	[illegible]
	40	50	[illegible]



WHITE RANCH

LOCATION Sec. 20-5-10 NE¼ of NE¼

DRILLED BY: T.I.D

DATE: Mar 1935

CONFIDENTIAL
Water Code Sec. 13752

REMARKS: Tested with air pump

1050 GPM 22' 6" DD

950 GPM 20' 0" DD

850 GPM 17' 6" DD

Static water 4 ft

LOG

Casing	Depth	Well	Type of Soil
			Soil
			Clay 4
			Sand 4
10 ft 24 in Perf			Clay 32
	50		16
			Sand & Clay
10 ft Lap	66		
			Clay 34/5
	105		
108 ft 16 in Perf			Set Sand 22
	125		Clay 10
	135		Brown Mud 12
	141		Blue Clay 6
	153		Blue Mud 16
	169		Blue Clay 22
	191		9
			Gray Clay
	215		Sand
	241		Clay
	254		Sand

ORIGINAL
File with DWR

STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES

WATER WELL DRILLERS REPORT

Do Not Fill In

№ 66728

State Well No.

Other Well No. 5S/10E-20

(1) OWNER:

Name [redacted]

Address

(2) LOCATION OF WELL:

County Stanislaus Owner's number, if any

Township, Range, and Section 4400 Linwood, Turlock

Distance from cities, roads, railroads, etc. 3 mile West of Turlock

(3) TYPE OF WORK (check):

New Well ☒ Deepening ☐ Reconditioning ☐ Destroying ☐

If destruction, describe material and procedure in Item 11.

(4) PROPOSED USE (check):

Domestic ☒ Industrial ☐ Municipal ☐
Irrigation ☐ Test Well ☐ Other ☐

(5) EQUIPMENT:

Rotary ☒
Cable ☐
Other ☐

(6) CASING INSTALLED:

STEEL: SINGLE ☒ DOUBLE ☐ OTHER:

If gravel packed

From ft.	To ft.	Diam.	Gage or Wall	Diameter of Bore	From ft.	To ft.
0	60	6 5/8	12	10	50	60

Size of shoe or well ring: Size of gravel: 1/4

Describe joint

(7) PERFORATIONS OR SCREEN:

Type of perforation or name of screen

From ft.	To ft.	Perf. per row	Rows per ft.	Size in. x in.
50	60	10	6	1/8 x 2"

(8) CONSTRUCTION:

Was a surface sanitary seal provided? Yes ☐ No ☐ To what depth ft.

Were any strata sealed against pollution? Yes ☐ No ☐ If yes, note depth of strata

From ft. to ft.

From ft. to ft.

Method of sealing

(9) WATER LEVELS:

Depth at which water was first found, if known 4 ft.

Standing level before perforating, if known ft.

Standing level after perforating and developing ft.

(10) WELL TESTS:

Was pump test made? Yes ☐ No ☐ If yes, by whom?

Yield: gal./min. with ft. drawdown after hrs.

Temperature of water Was a chemical analysis made? Yes ☐ No ☐

Was electric log made of well? Yes ☐ No ☐ If yes, attach copy

(11) WELL LOG: UNCONFINED

Total depth 60 ft. Depth of completed well 60 ft.

Formation: *Describe by color, character, size of material, and structure*

	ft. to ft.
Top Soil	0-5
Hard Pan	5-7
Clay	7-12
Sand	12-28
Clay	28-52
Sand	52-58
Clay	58-60

CONFIDENTIAL
Water Code Sec. 13752

Work started 19 Completed 9/17 1970

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME Olson Pltg + Well Drilling
(Person, firm, or corporation) (Typed or printed)

Address 1015 N 99 Hwy
Turlock, Calif

[SIGNED] Emery Olson
(Well Driller)

License No. 110637 Dated 10-10, 1970

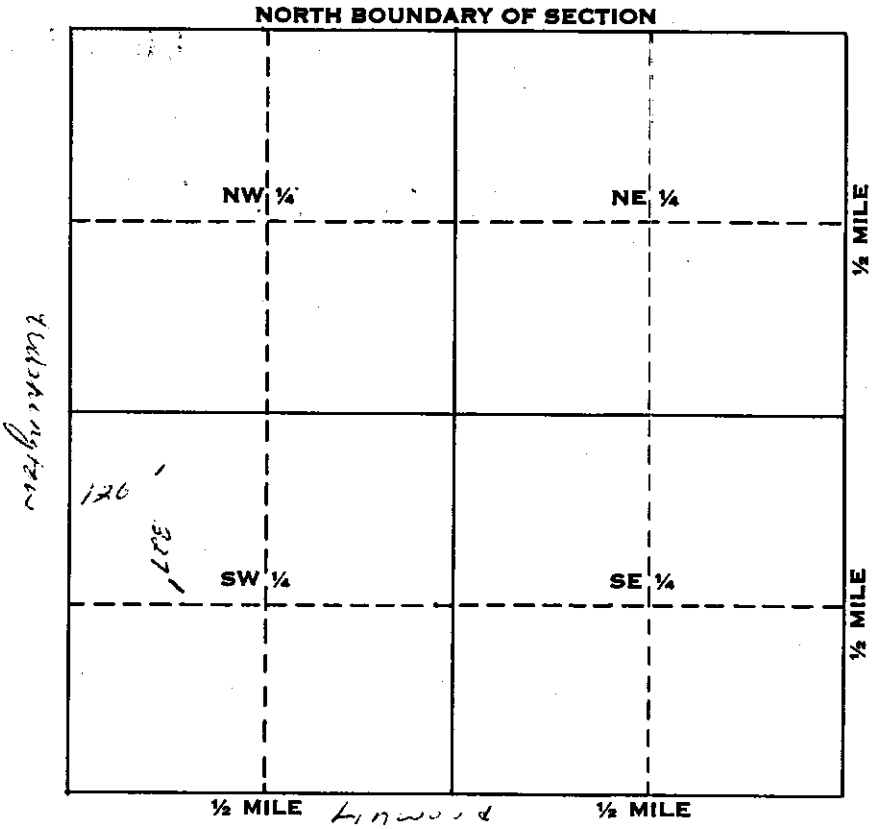
SKETCH LOCATION OF WELL ON REVERSE SIDE

Exhibit 12

DWR 188 (REV. 9-68)

28179-950 9-68 50M TRIP △D OSP

WELL LOCATION SKETCH

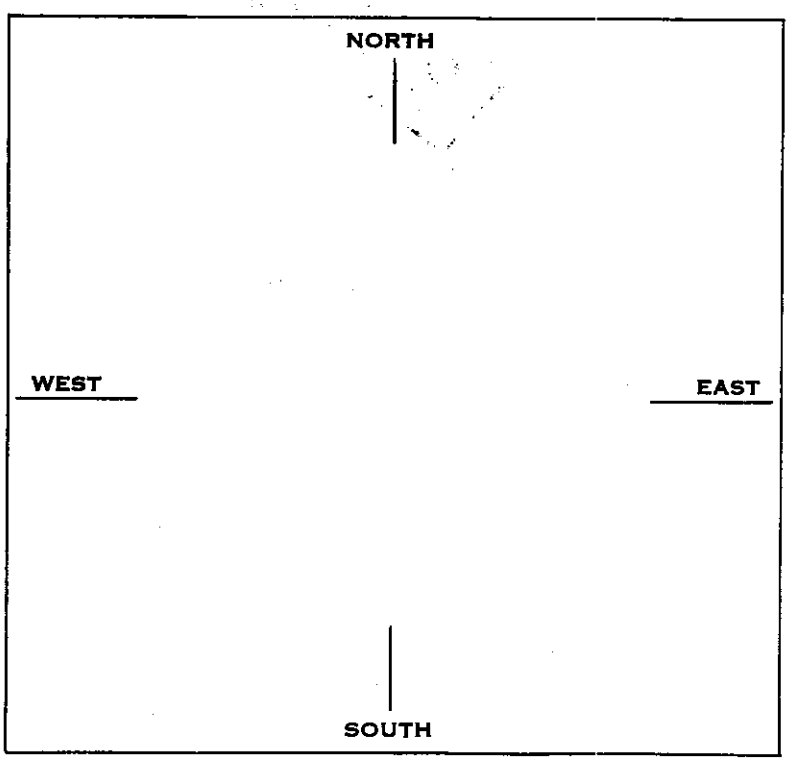


Township _____ N/S

Range _____ E/W

Section No. _____

A. Location of well in sectionized areas.
Sketch roads, railroads, streams, or other features as necessary.



B. Location of well in areas not sectionized.
Sketch roads, railroads, streams, or other features as necessary.
Indicate distances.

RECEIVED
SAN JOAQUIN DISTRICT

Exhibit 12