

Mr. Rob Tucker
California Regional Water Quality Control Board
Lahontan Region
2501 Lake Tahoe Blvd.
South Lake Tahoe, CA 96150

Discharger: Teichert Materials

Name of Facility: Martis Valley

WDRs Order Number: No.6-96-59, WDID No.6A294520011

County: Nevada

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

Check all that apply:

Monthly Monitoring Report for the month of _____

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

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

Annual Monitoring Report for the year 2020

Violation Notification

During the monitoring period, there were **(circle one)** were no any violations of the WDR's.

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

Certification Statement

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

Signature: 

Phone # 916-484-325

Printed Name: John Lane

Date: February 2, 2021



TEICHERT MATERIALS

Established 1887

Corporate Office
3500 American River Drive
Sacramento, CA 95864-5805
P.O. Box 15002
Sacramento, CA 95851-1002
(916) 484-3011 • Fax: (916) 484-7012

February 2, 2021

Mr. Rob Tucker
California RWQCB
Lahontan Region
2501 Lake Tahoe Blvd.
South Lake Tahoe, CA 96150

RE: Board Order No. 6-96-59, WDID No. 6A294520011 Martis Valley 2020 4Quarter & Annual Report

Dear Mr. Tucker:

Enclosed please find a copy of the 2020 4th Quarter and Annual Report for our Martis Valley Plant, Board Order No.6-96-59, WDID No. 6A294520011. If you have any questions or comments, please contact me at (916) 480-5523, or by email at wchristner@teichert.com

Teichert Aggregates - Martis Valley	
Regulatory Program	Waste Discharge to Land
Unit	Compliance
Regulated Party Name	A Teichert & Son Inc
Facility Name	Teichert Martis Valley operation
County	Nevada
Order No.:	6-96-59
WDID No.	6A294520011

Sincerely,

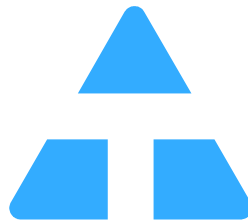
Bill Christner, PhD
Environmental Scientist
A. Teichert & Son, Inc.

2020 FOURTH QUARTER & ANNUAL REPORT

WASTE DISCHARGE REQUIREMENTS

MRP NO. 6-96-59

MARTIS VALLEY PLANT



**TEICHERT AGGREGATES
P.O.BOX 15002
SACRAMENTO, CA 95851-1002
(916) 464-3011**

I. Site Description

This facility consists of an aggregate mining and processing operation with an import recycling component. The mining process includes extracting aggregates from the mine area and transporting the material to the processing plant via conveyors. Material processing includes crushing, sizing, stockpiling, and washing material. The processed material is loaded into trucks for use off-site ,or used in the on-site asphalt plant for asphalt production. Recycling includes the import of asphaltic concrete (AC) and portland cement concrete (PCC), which is then crushed, sized and re-sold. A site location map is attached as **Figure 1**.

II. Site Conditions

Site conditions are inspected monthly and documented. The inspection includes condition of containment dikes, settling pond capacity, evidence of chemical spills, evidence of erosion, and condition of oil/water separator. See **Attachment 1** for copies of the inspection forms.

A. Containment Dikes Around Settling or Storage Ponds

Containment dikes remained in good condition throughout the year. No evidence of berm failure was observed.

B. Settling Pond Capacity

The settling pond capacity remained adequate throughout the year and did not overflow during the year.

C. Chemical Spills

There were no spills in 2020 in quantities that required reporting (>5 gallons).

D. Erosion In and Around the Site

Erosion only occurred within the boundaries of the mine site and was repaired during ongoing reclamation activities. All stormwater is retained on-site, and no stormwater run-off was observed.

E. Condition of Oil/Water Separator

The oil/water separator remained in acceptable condition throughout the year.

III. Groundwater

a. Gauging

Groundwater gauging is performed monthly through an agreement with the Tahoe-Truckee Sanitation Agency (TTSA). All accessible wells are gauged. Locations of groundwater depth measurements are presented in **Attachment 2**, along with a static groundwater elevation data summary table.

b. Sampling

Groundwater sampling takes place quarterly at three wells: the Plant Well, Monitoring Well-33 (MW-33) and Monitoring Well-40 (MW-40, background well). Samples were collected by Teichert personnel and analyzed by a California Certified Environmental Lab.

The Plant Well has a dedicated pump which usually runs continuously during normal plant operations. Samples were collected directly into containers from a sample port near the well head.

Monitoring wells MW-33 and MW-40 were purged and sampled during quarterly sampling periods Q1-Q4. The method consisted of purging three volumes of well casing water until water quality parameters stabilized utilizing a flow rate of approximately 2.0 gpm. A 2-inch submersible pump is lowered slowly and carefully to avoid unnecessary disturbance in each well. The pump intake is positioned near the bottom of the screened interval and the depth to water is monitored to prevent unnecessary drawdown. Discharged water passes through dedicated polyethylene tubing to a flow-through cell for measurement using a multi-parameter sensor and turbidity meter. Calibration was conducted following the manufacturer's instructions during each day of use.

Field parameters (pH and electrical conductivity [EC]) were monitored during purging and samples were retrieved upon stabilization of these parameters. Typically,

temperature, dissolved oxygen (DO) content, oxygen redox potential (ORP), turbidity, and appearance are also observed.

All samples were collected in laboratory-supplied bottles with no headspace, immediately placed on ice, and delivered to a laboratory certified through the State of California (Department of Health Services Environmental Laboratory Accreditation Program) with the proper chain-of-custody documentation within the required holding time.

Copies of the analytical reports for each quarter are included in **Attachment 3**, copies of Field Notes are included in **Attachment 4**. A summary of these results is provided in **Table 1** (2020 Summary of Analytical Results).

No detections were recorded for gasoline range hydrocarbons (TPHg), diesel range hydrocarbons (TPHd), Hexane Extrable Material (HEM, aka: Oil & Grease) not detected above their respective reporting limits in 2020. A single detection for motor oil was observed in the 4Q20 sampling of the Plant Well. The detection was well below the reporting limit of 5.0 mg/L (5000 µg/L).

The following constituents (not required by the WDR order) were included as part of the groundwater monitoring, because they are components of gasoline which is retained on site. These constituents were not detected during any sample event.

- Benzene, Toluene, Ethylbenzene and Xylene (BTEX)

IV. Mining Activities

Mining activities at this site include mining for aggregates, processing aggregates, asphalt production, reclamation or backfilling, importing materials, and recycling of soil, asphalt, and concrete. The mined area backfilled is shown on a map as **Figure 2**. A majority of the mining took place in the south-central portion of the site. Mining at the South Hill area was limited in 2020. **Table 2 –Import Products 2020** details the type, amount, source, and end use of import materials. Import materials (asphalt, rock, and concrete) were accepted for recycling into a marketable product and soils were imported for backfilling previously mined areas (reclamation) and to build berms within the site.

Mining and pit floor elevations were maintained to be greater than 2-feet above groundwater. Routine surveys were performed to control mining grade.

As listed in Section II of this report, the capacity of the settling ponds remained adequate throughout the year.

V. Summary

Activities at the plant do not appear to have impacted groundwater or surface water. No aggregate wash water was discharged to surface or groundwater, and wash water discharges were restricted to the designated disposal area. No berm failures were reported and no fuel spills in reportable quantities occurred.

There were some changes to the Site. As part of a lease agreement with TTSA, the mined out Western side of the facility is being reclaimed. Increasingly smaller areas are being mined around the plant. The south hill area of the site is actively being mined and used for re-screening native and import materials.

In conclusion, the 2020 groundwater monitoring results indicate there are no impacts to groundwater quality as a result of mining activities.

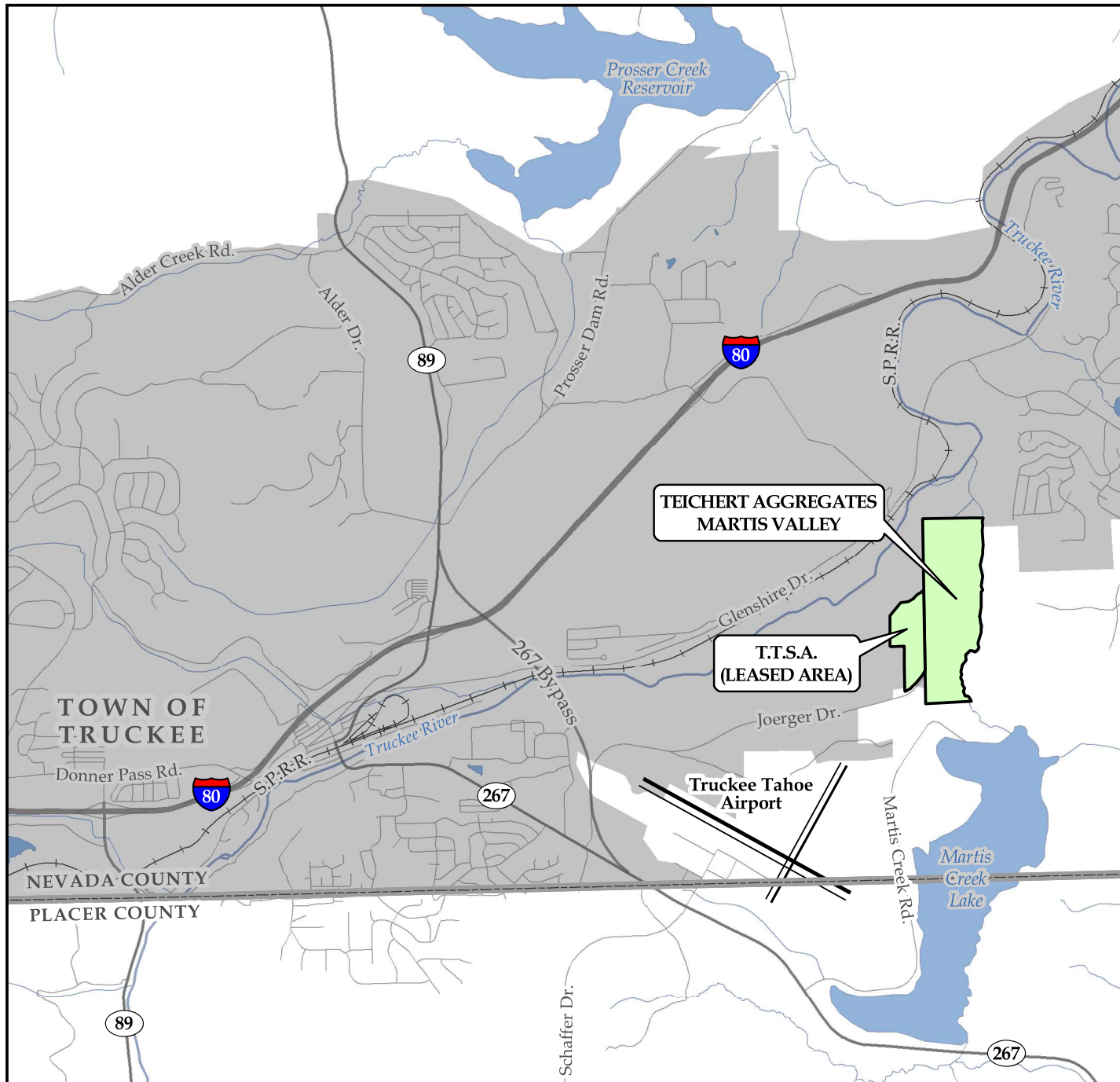


FIGURE 1

MARTIS VALLEY

TEICHERT AGGREGATES

NEVADA COUNTY, CALIFORNIA

LEGEND

- Project Boundaries
- Town of Truckee
- Lake/ Reservoir
- Highways
- Streets
- Railroad
- Rivers, Creeks, Streams

DISCLAIMER:

The map data was developed for planning purposes only. No liability is assumed for the accuracy of the data shown.



SCALE:

0 0.4 0.8 Miles

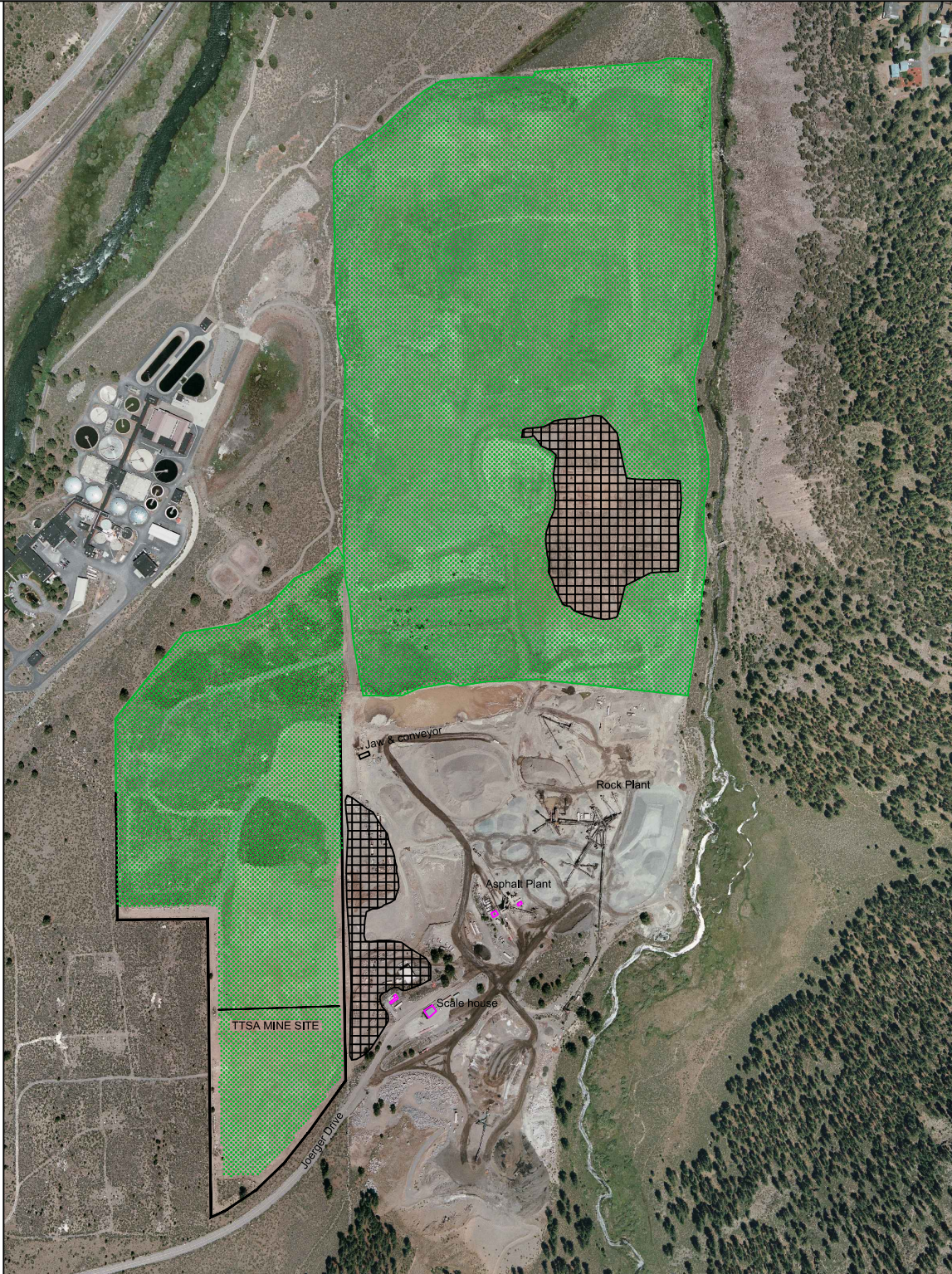
MAP CREATED BY:

C. Cornejo

Map Name: MVY_VicinityMapFig1.mxd

Teichert Aggregates
GIS Department





NOTES:
Point Co., Inc.
Orthophoto date: 06/01/17



Backfill Areas



Reclaimed

MARTIS VALLEY PLANT NEVADA COUNTY, CALIFORNIA **Figure 2 BACKFILL AREAS**

SIZE
A

December 31, 2017

1 inch = 700 feet

REV
1

1 inch = 700 feet

H. Cote

MVY_BackfillReport_20180105.dwg

Table 1. Groundwater Quality Summary Table									
Teichert Aggregates Martis Valley Plant									
			TPH-G (ug/l)	TPH-D and MO (ug/l)	Oil and Grease (HEM) (mg/l)	Benzene (ug/l)	Toluene (ug/l)	Ethylbenzene (ug/l)	Xylene Total (ug/l)
Method Detection Limit			50.0	50.0	5.0	0.50	0.50	0.50	1.0
Location	Well ID	Date							
Upgradient	MW-40	1/24/2020	ND	ND	ND	ND	ND	ND	ND
Upgradient	MW-40	6/29/2020	ND	ND	ND	ND	ND	ND	ND
Upgradient	MW-40	9/20/2020	ND	ND	ND	ND	ND	ND	ND
Upgradient	MW-40	12/21/2020	ND	ND	ND	ND	ND	ND	ND
Upgradient	MW-33	1/24/2020	ND	ND	ND	ND	ND	ND	ND
Upgradient	MW-33	6/29/2020	ND	ND	ND	ND	ND	ND	ND
Upgradient	MW-33	9/20/2020	ND	ND	ND	ND	ND	ND	ND
Upgradient	MW-33	12/21/2020	ND	ND	ND	ND	ND	ND	ND
Downgradient	Plant Well	1/24/2020	ND	ND	ND	ND	ND	ND	ND
Downgradient	Plant Well	6/29/2020	ND	ND	ND	ND	ND	ND	ND
Downgradient	Plant Well	9/20/2020	ND	ND	ND	ND	ND	ND	ND
Downgradient	Plant Well	12/21/2020	ND	100*	ND	ND	ND	ND	ND
* = value is for Motor Oil. TPH-D was not detected.									
ND = Not detected at the detection limit.									
NA = Not Analyzed									
Bold – values detected above the recording limit									
TPH-G, TPH-D, Oil and Grease			Required testing by WDR						

Teichert Martis Valley Plant

Table 2 - Import Product 2020

Month	SOIL, ROCK	ASPHALT, CONCRETE, ROCK	SUBTOTAL
	Use = Reclamation	Use = Recycling	
	Source = Import from clean excavations (tons)	Source = Import from construction demolition (tons)	
January	0.00	0.00	0.00
February	0.00	0.00	0.00
March	0.00	0.00	0.00
April	0.00	178.37	178.37
May	44.26	1818.19	1862.45
June	168.23	2070.21	2238.44
July	451.52	2870.35	3321.87
August	3530.33	1300.95	4831.28
September	2485.31	1709.42	4194.73
October	1621.98	2256.68	3878.66
November	9.77	343.58	353.35
December			0.00
TOTAL	8,311.40	12,547.75	20,859.15

ATTACHMENT 1

**MONTHLY MONITORING AND
INSPECTION RECORDS**

Teichert Materials

Month: AprilYear: 2020

Monthly AST Inspection Checklist

As required by 40 CFR, 112.7 and SPCC Plan

Plant: Martins Valley

All items inspected and satisfactory unless noted otherwise

O = Repair or Adjustment see Comments below

C = See Comments below

NA = Not Applicable

Tank Contents		Tank Size in Gallons																											
		250		500		250		500		2250		15000		20000		20000		20000		6000		20000		30000					
Location		shop	shop	shop	Fuel IL	Fuel IL	Fuel IL	Fuel IL	Fuel IL	Hot pit	Hot pit	Hot pit	Hot pit	Hot pit	Hot pit	Hot pit	Hot pit	Hot pit	Hot pit	Hot pit	Hot pit	Hot pit	Hot pit	Hot pit	Hot pit				
AST	Inspect tanks and piping for leaks and/or damage	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓				
	Surface condition good-no rusting or pitting. Bolts, rivets, or seams are not damaged. Foundation intact and good condition.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓				
	Vents are not obstructed. Valves, flanges, and gaskets are free from leaks.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓				
	Level gauges and alarms working properly.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓				
	Containment walls are intact-inspect interstitial area of double walled tanks	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓				
	Properly Labeled with Contents and proper warning labels.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓				
	Inspect loading arm, hoses, couplers and piping for leaks and/or damage.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓				
Load/Unload Area	Drip pans are not overflowing. Catch basins are free of contamination.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓				
	Warning signs are posted.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓					
	Containment wall, curbing or trenches are intact, no damage or leaks.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓					
Secondary Containment	Containment area drainage valves are closed, locked or capped	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓				
	Containment area is clean of debris and standing water.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓					
	Check water for oil sheen before discharging. Discharge <u>Clean water only!</u>	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓					
	Oil/water separator systems are working properly	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓					
	ATS controls & pumps locked when not in use.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓					
Security & Response	Lighting, fence or gates intact.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓				
	Emergency shut off accessible & working with proper signage.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓					
	Spill kit and Fire Extinguishers available and up to date.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓					
	Inspect for leaks, damage and proper labeling	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓					
Drums & Containers	Secondary containment is in good order, clean of debris and excess water.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓				

Date: 4/21/20Comments: Drain Water NO SheenSignature: [Signature]

Month: MAY Year: 2020
All items inspected and satisfactory unless noted otherwise

As required by 40 CFR, 112.7 and SPCC Plan

NA = Not Applicable

All items inspected and satisfactory unless noted otherwise

Q = Repair or Adjustment see Comments below

C = See Comments below

NA = Not Applicable

Date: 5/27/20 Comments: PH Good

Signature: [Signature]

Year: 2020

All items inspected and satisfactory unless noted otherwise

Monthly AST Inspection Checklist

As required by 40 CFR, 112.7 and SPCC Plan

O = Repair or Adjustment see Comments below

C = See Comments below

Plant: Martins Valley

NA = Not Applicable

[illegible]

Date: 6/25/20

Comments:

All good

Signature:

Teichert Materials

Month: JulyYear: 2020

Monthly AST Inspection Checklist

As required by 40 CFR, 112.7 and SPCC Plan

Plant: Martis Valley

All items inspected and satisfactory unless noted otherwise

O = Repair or Adjustment see Comments below

C = See Comments below

NA = Not Applicable

Month: 12/2024	All items inspected and satisfactory unless noted otherwise		O = Repair or Adjustment see Comments below														C = See Comments below														NA = Not Applicable																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
	Tank Contents	New antifreeze tote	Used oil tank	Used antifreeze	Gasoline tank T62	Lube tank 3 compartments	Diesel tank	Asphalt tank 1	Asphalt tank 2	Asphalt tank 3	Asphalt tank 4	Asphalt tank 5	Propane tank 1	Propane tank 2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			

Date: 7/23/20Comments: 9002Signature: [Signature]

Year: 2020

As required by 40 CFR, 112.7 and SPCC Plan

Plant: Martins Valley

O = Repair or Adjustment see Comments below

C = See Comments below

NA = Not Applicable

All items inspected and satisfactory unless noted otherwise

Signature: 

Month: Sept

All items inspected and satisfactory unless noted otherwise

Monthly AST Inspection Checklist

As required by 40 CFR, 112.7 and SPCC Plan

Plant: Martins Valley

O = Repair or Adjustment see Comments below

C = See Comments below

NA = Not Applicable

[illegible]

Date: 9/15/20

Comments: All good

Signature:

Month: Oct

Year: 20

As required by 40 CFR, 112.7 and SPCC Plan

Plant: Martins Valley

All items inspected and satisfactory unless noted otherwise

O = Repair or Adjustment see Comments below

C = See Comments below

NA = Not Applicable

[illegible]

Date: 10/20/20

Comments: 1711 Good

Signature:

Month: Nov

Year: 1976

As required by 40 CFR, 112.7 and SPCC Plan

Plant: Martins Valley

O = Repair or Adjustment see Comments below

C = See Comments below

NA = Not Applicable

All items inspected and satisfactory unless noted otherwise

[illegible]

Date: 11/23/20

Comments:

Prin Contaminant NO Screen

Signature:

Month: Dec Year: 20

All items inspected and satisfactory unless noted otherwise

Monthly AST Inspection Checklist

As required by 40 CFR. 112.7 and SPCC Plan

Plant: Martins Valley

O = Repair or Adjustment see Comments below

C = See Comments below

NA = Not Applicable

[illegible]

Date: 12/14/20

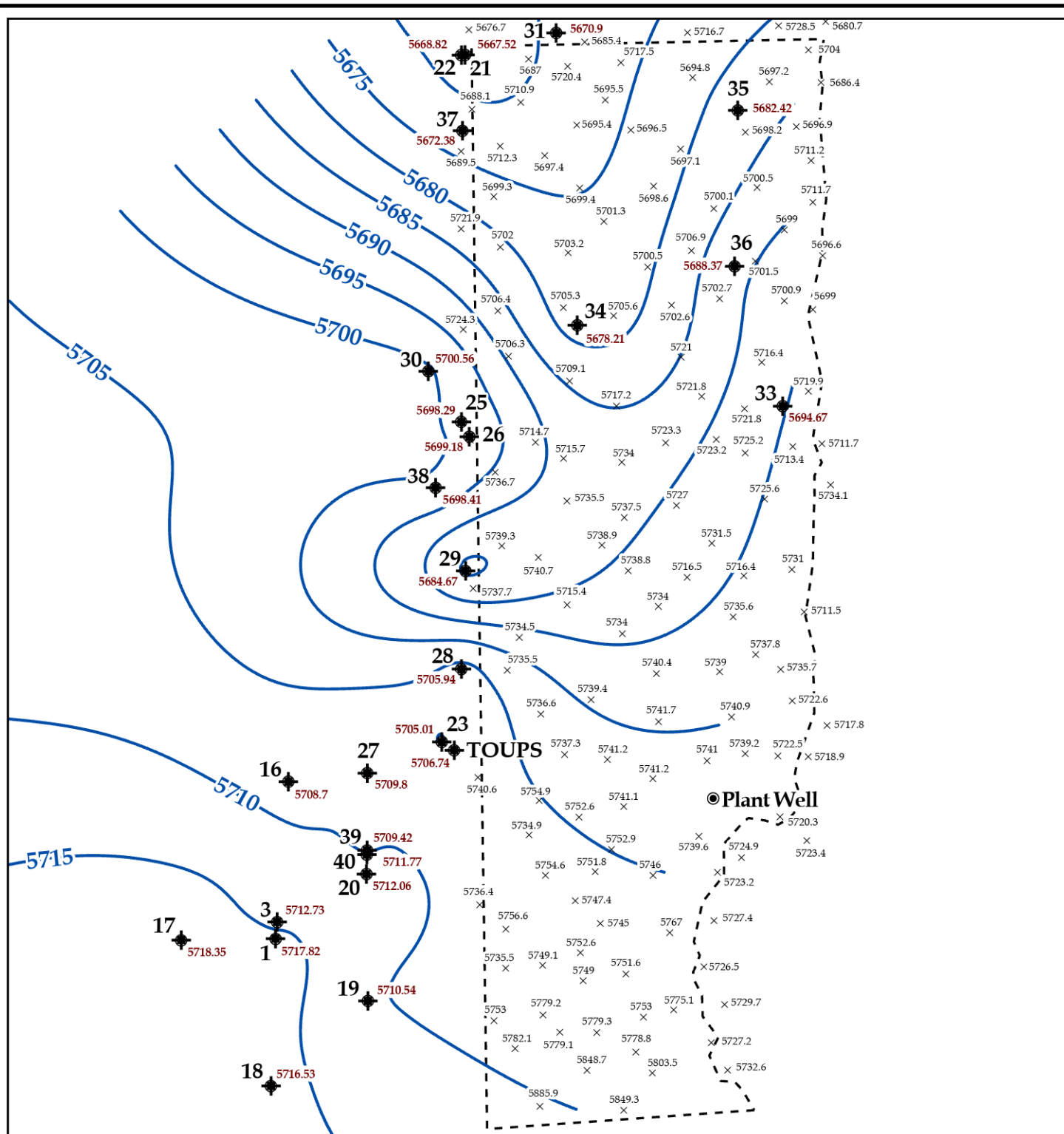
Comments:

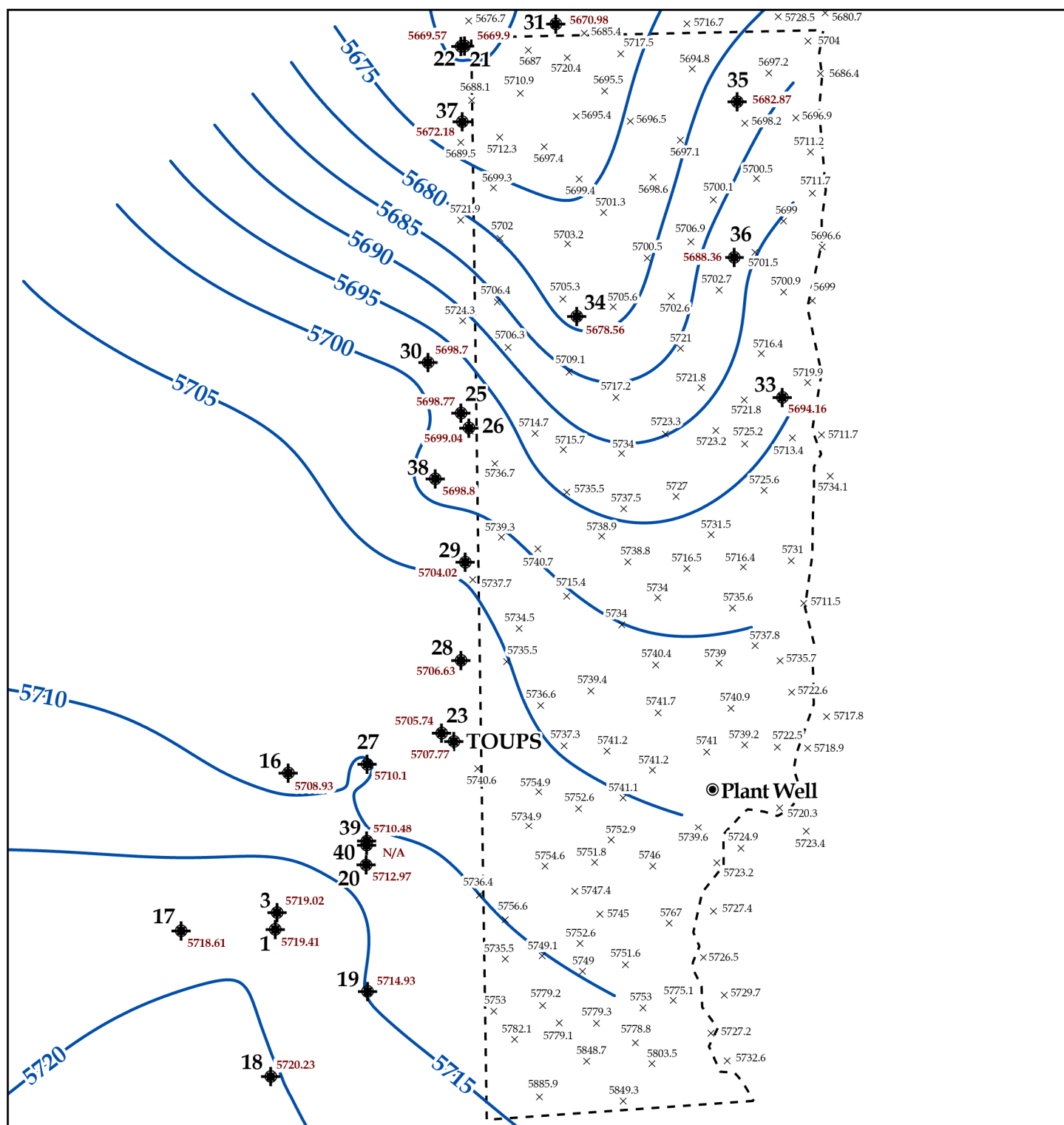
Signature: [Handwritten Signature]

ATTACHMENT 2

ISOPACH MAPS

GROUNDWATER ELEVATION SUMMARY TABLE





0 350 700 Feet

SOURCE:
Groundwater Measurements
Provided by TTSA

Spot Elevation Provided by PointCo
(June 20, 2016); NGVD 29

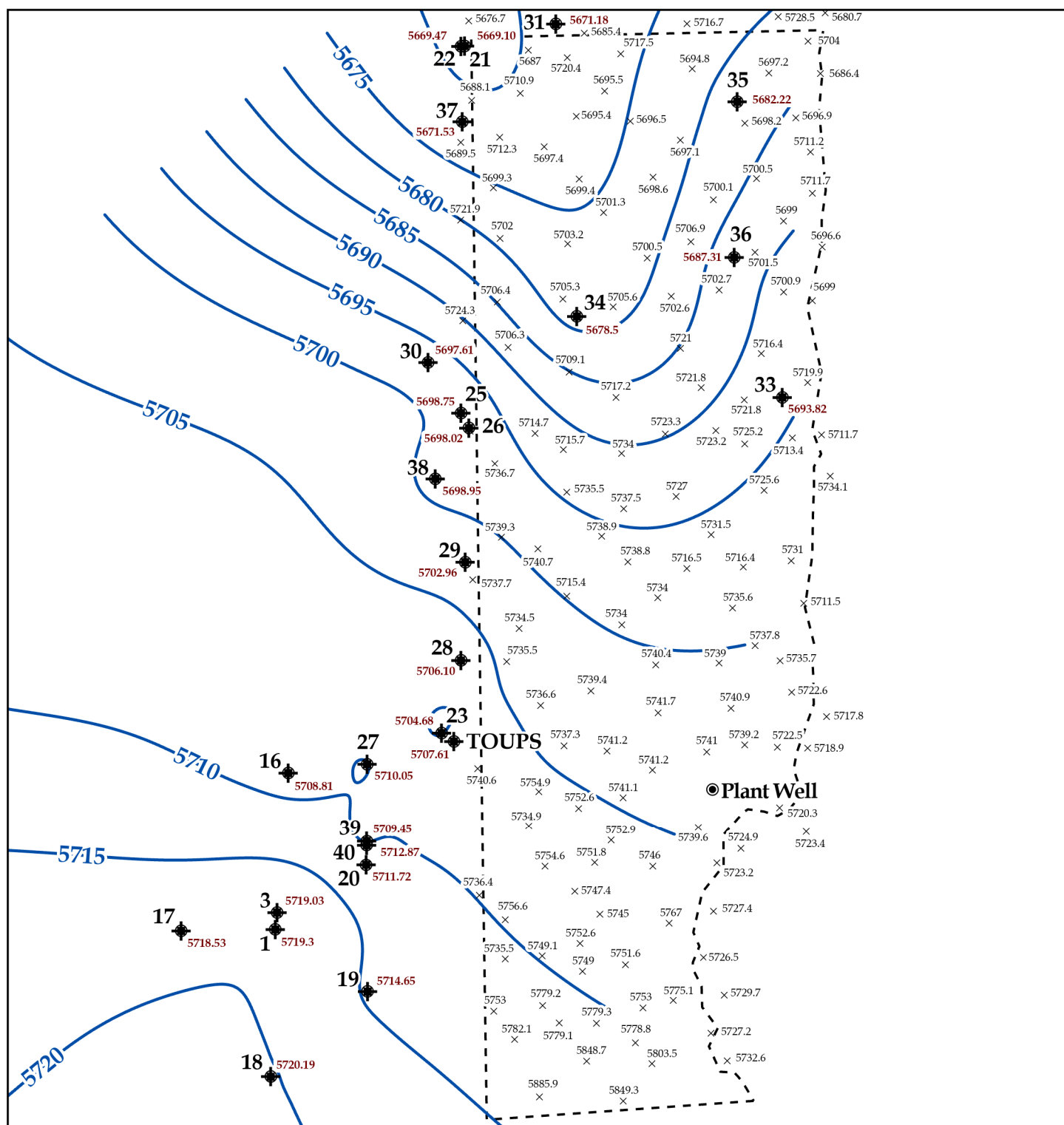
DISCLAIMER:
*The data was mapped for assessment
purposes only. No liability is assumed
for the accuracy of the data shown.*

MARTIS VALLEY
CONTOURS OF GROUNDWATER
2ND QUARTER, 2020
NEVADA COUNTY, CALIFORNIA

LEGEND:

✚	Monitoring Well	×	Spot Elevation
5715	Groundwater Elevation (FMSL)	- - -	TTSA Mining Lease Boundary
—	Groundwater Elevation Contours		

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0 350 700 Feet

SOURCE:
Groundwater Measurements
Provided by TTSA

Spot Elevation Provided by PointCo
(June 20, 2016); NGVD 29

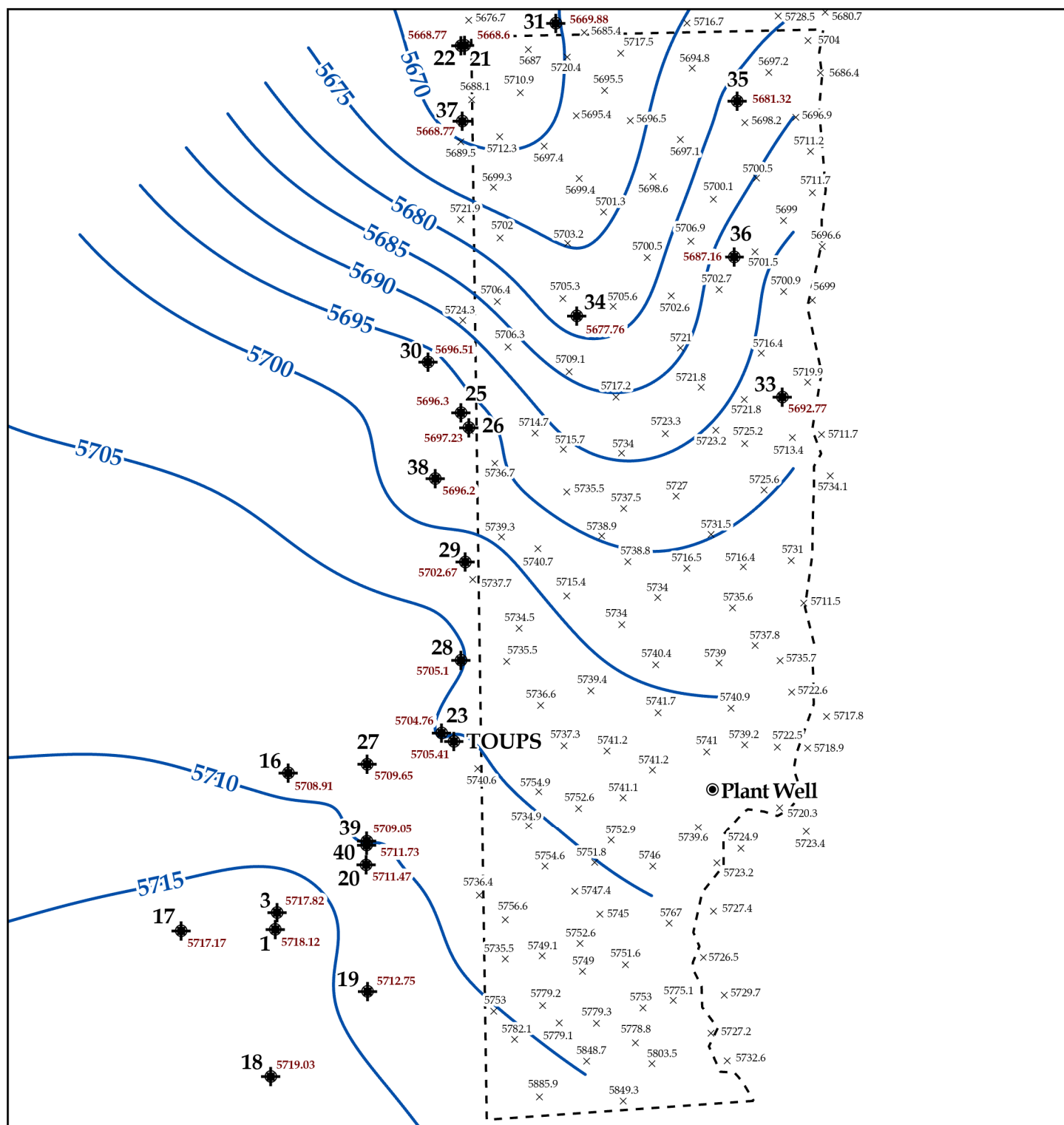
DISCLAIMER:
*The data was mapped for assessment
purposes only. No liability is assumed
for the accuracy of the data shown.*

MARTIS VALLEY
CONTOURS OF GROUNDWATER
3RD QUARTER, 2020
NEVADA COUNTY, CALIFORNIA

LEGEND:

✚	Monitoring Well	×	Spot Elevation
5715	Groundwater Elevation (FMSL)	- - -	TTSA Mining Lease Boundary
—	Groundwater Elevation Contours		

**TEICHERT
MATERIALS**



0 350 700 Feet

SOURCE:
Groundwater Measurements
Provided by TTSA

Spot Elevation Provided by PointCo
(June 20, 2016); NGVD 29

DISCLAIMER:
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for the accuracy of the data shown.*

MARTIS VALLEY
CONTOURS OF GROUNDWATER
4TH QUARTER, 2020
NEVADA COUNTY, CALIFORNIA

LEGEND:

✚	Monitoring Well	×	Spot Elevation
5715	Groundwater Elevation (FMSL)	- - -	TTSA Mining Lease Boundary
—	Groundwater Elevation Contours		

**TEICHERT
MATERIALS**

ATTACHMENT 3

ANALYTICAL REPORTS



CALIFORNIA LABORATORY SERVICES

Committed. Responsive. Flexible.

December 30, 2020

CLS Work Order #: 20L1149

COC #:

Bill Christner
Teichert Aggregates
3500 American River Dr
Sacramento, CA 95851

**Project Name: Martis 2020 Quarterly
Groundwater Sampling**

Enclosed are the results of analyses for samples received by the laboratory on 12/22/20 10:29. Samples were analyzed pursuant to client request utilizing EPA or other ELAP approved methodologies. I certify that the results are in compliance both technically and for completeness.

Analytical results are attached to this letter. Please call if we can provide additional assistance.

Sincerely,

James Liang, Ph.D.
Laboratory Director

CA SWRCB ELAP Accreditation/Registration number 1233

CLS ID. NO. 2021149 (1 of 1)

Report To: Teichert Aggregates attn.: Bill Christner wchristner@teichert.com				Client Job Number: 1471-7750				ANALYSIS REQUESTED				GEOTRACKER EDF REPORT NO			
Invoice To: Same				Destination Laboratory				<div style="display: flex; flex-direction: column; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg); font-weight: bold;">PRESERVATIVES</div> <div style="display: flex; flex-direction: column; gap: 5px;"> <div>TPHd & motor oil (8015M)</div> <div>TPH oil & grease (1664A)</div> <div>TPHg (8260B)</div> </div> </div>				GLOBAL ID			
3500 American River Drive, Sacramento, CA 95864				<input checked="" type="checkbox"/> CLS (916) 638-7301 3249 Fitzgerald Road Rancho Cordova, CA 95742 www.californialab.com								FIELD CONDITIONS			
Project Manager : Bill Christner 916-480-5523				<input type="checkbox"/> OTHER								COMPOSITE			
Project Name Martis 2020 Quarterly Groundwater Sampling												TURNAROUND TIME IN DAYS <div style="display: flex; justify-content: space-around;"> <div>1</div> <div>2</div> <div>5</div> <div>10</div> </div>			
Sampled By Bill Christner															
Job Description Martis Plant WDR Groundwater Samples								SPECIAL INSTRUCTIONS							
Site Location Martis Plant															

DATE	TIME	SAMPLE IDENTIFICATION	FIELD ID.	CONTAINER			PRESERVATIVES	TPHd & motor oil (8015M)	TPH oil & grease (1664A)	TPHg (8260B)								
				MATRIX	NO.	TYPE												
12/21/20	0950	MW-33		H ₂ O	1	250 AG	3	X	X	X								
					1	1L AG	3											
					3	50ml VOA	1											
	1140	MW-40		H ₂ O	1	250 AG	3	X	X	X								
					1	1L AG	3											
					3	50ml VOA	1											
	1045	Plant Well		H ₂ O	1	250 AG	3	X	X	X								
					1	1L AG	3											
					3	50ml VOA	1											

SUSPECTED CONSTITUENTS				SAMPLE RETENTION TIME				PRESERVATIVES (1) HCl, (3) = COLD (2) HNO ₃ , (4) = Na ₂ SO ₃			
RELINQUISHED BY (Signature)		PRINT NAME/COMPANY		DATE/TIME		RECEIVED BY (Signature)		PRINT NAME/COMPANY			
[Signature]		Bill Christner/Teichert Aggregates		12/22/2020 / 1029							
RECEIVED AT LAB BY: [Signature]				DATE/TIME: 12/23/2020 1029		CONDITIONS/COMMENTS: 3.2					
SHIPPED BY:		<input type="checkbox"/> FED EX <input type="checkbox"/> UPS <input type="checkbox"/> OTHER		AIR BILL #							



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12/30/20 11:19

Teichert Aggregates
3500 American River Dr
Sacramento, CA 95851

Project: Martis 2020 Quarterly Groundwater Sampling
Project Number: 1471-7750
Project Manager: Bill Christner

CLS Work Order #: 20L1149
COC #:

Conventional Chemistry Parameters by APHA/EPA Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-33 (20L1149-01) Water Sampled: 12/21/20 09:50 Received: 12/22/20 10:29									
Hexane Extractable Material (HEM, Oil & Grease)	ND	5.0	mg/L	1	2010539	12/28/20	12/29/20	EPA 1664B	
MW-40 (20L1149-02) Water Sampled: 12/21/20 11:40 Received: 12/22/20 10:29									
Hexane Extractable Material (HEM, Oil & Grease)	ND	5.0	mg/L	1	2010539	12/28/20	12/29/20	EPA 1664B	
Plant Well (20L1149-03) Water Sampled: 12/21/20 10:45 Received: 12/22/20 10:29									
Hexane Extractable Material (HEM, Oil & Grease)	ND	5.0	mg/L	1	2010539	12/28/20	12/29/20	EPA 1664B	



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12/30/20 11:19

Teichert Aggregates
3500 American River Dr
Sacramento, CA 95851

Project: Martis 2020 Quarterly Groundwater Sampling
Project Number: 1471-7750
Project Manager: Bill Christner

CLS Work Order #: 20L1149
COC #:

Extractable Petroleum Hydrocarbons by EPA Method 8015M

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-33 (20L1149-01) Water Sampled: 12/21/20 09:50 Received: 12/22/20 10:29									
Diesel	ND	0.050	mg/L	1	2010458	12/23/20	12/23/20	EPA 8015M	
Motor Oil	ND	0.050	"	"	"	"	"	"	
Surrogate: o-Terphenyl		97 %	65-135		"	"	"	"	
MW-40 (20L1149-02) Water Sampled: 12/21/20 11:40 Received: 12/22/20 10:29									
Diesel	ND	0.050	mg/L	1	2010458	12/23/20	12/23/20	EPA 8015M	
Motor Oil	ND	0.050	"	"	"	"	"	"	
Surrogate: o-Terphenyl		66 %	65-135		"	"	"	"	
Plant Well (20L1149-03) Water Sampled: 12/21/20 10:45 Received: 12/22/20 10:29									
Diesel	ND	0.050	mg/L	1	2010458	12/23/20	12/23/20	EPA 8015M	
Motor Oil	ND	0.050	"	"	"	"	"	"	
Surrogate: o-Terphenyl		125 %	65-135		"	"	"	"	



CALIFORNIA LABORATORY SERVICES

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Teichert Aggregates
3500 American River Dr
Sacramento, CA 95851

Project: Martis 2020 Quarterly Groundwater Sampling
Project Number: 1471-7750
Project Manager: Bill Christner

CLS Work Order #: 20L1149
COC #:

TPH-Gasoline by GC/MS

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-33 (20L1149-01) Water Sampled: 12/21/20 09:50 Received: 12/22/20 10:29									
Gasoline	ND	50	µg/L	1	2010451	12/22/20	12/23/20	EPA 8260M	
Surrogate: Toluene-d8		96 %	65-135		"	"	"	"	
MW-40 (20L1149-02) Water Sampled: 12/21/20 11:40 Received: 12/22/20 10:29									
Gasoline	ND	50	µg/L	1	2010451	12/22/20	12/23/20	EPA 8260M	
Surrogate: Toluene-d8		95 %	65-135		"	"	"	"	
Plant Well (20L1149-03) Water Sampled: 12/21/20 10:45 Received: 12/22/20 10:29									
Gasoline	ND	50	µg/L	1	2010451	12/22/20	12/23/20	EPA 8260M	
Surrogate: Toluene-d8		94 %	65-135		"	"	"	"	



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Teichert Aggregates
3500 American River Dr
Sacramento, CA 95851

Project: Martis 2020 Quarterly Groundwater Sampling
Project Number: 1471-7750
Project Manager: Bill Christner

CLS Work Order #: 20L1149
COC #:

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2010539 - Solvent Extract

Blank (2010539-BLK1)

Prepared: 12/28/20 Analyzed: 12/29/20

Hexane Extractable Material (HEM, Oil & Grease)	ND	5.0	mg/L
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LCS (2010539-BS1)

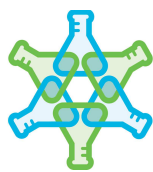
Prepared: 12/28/20 Analyzed: 12/29/20

Hexane Extractable Material (HEM, Oil & Grease)	36.6	5.0	mg/L	40.0	92	78-114
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LCS Dup (2010539-BSD1)

Prepared: 12/28/20 Analyzed: 12/29/20

Hexane Extractable Material (HEM, Oil & Grease)	36.1	5.0	mg/L	40.0	90	78-114	1	18
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CALIFORNIA LABORATORY SERVICES

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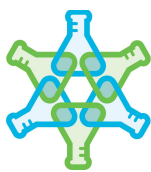
Teichert Aggregates
3500 American River Dr
Sacramento, CA 95851

Project: Martis 2020 Quarterly Groundwater Sampling
Project Number: 1471-7750
Project Manager: Bill Christner

CLS Work Order #: 20L1149
COC #:

Extractable Petroleum Hydrocarbons by EPA Method 8015M - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2010458 - EPA 3510B GCNV										
Blank (2010458-BLK1)				Prepared & Analyzed: 12/23/20						
Diesel	ND	0.050	mg/L							
Motor Oil	ND	0.050	"							
Surrogate: o-Terphenyl	0.0203		"	0.0250		81	65-135			
LCS (2010458-BS1)				Prepared & Analyzed: 12/23/20						
Diesel	1.91	0.050	mg/L	2.50		76	65-135			
Surrogate: o-Terphenyl	0.0181		"	0.0250		72	65-135			
LCS Dup (2010458-BSD1)				Prepared & Analyzed: 12/23/20						
Diesel	2.14	0.050	mg/L	2.50		86	65-135	11	30	
Surrogate: o-Terphenyl	0.0238		"	0.0250		95	65-135			
Matrix Spike (2010458-MS1)				Source: 20L1158-01		Prepared & Analyzed: 12/23/20				
Diesel	2.14	0.050	mg/L	2.50	ND	85	46-137			
Surrogate: o-Terphenyl	0.0169		"	0.0250		68	65-135			
Matrix Spike Dup (2010458-MSD1)				Source: 20L1158-01		Prepared & Analyzed: 12/23/20				
Diesel	1.63	0.050	mg/L	2.50	ND	65	46-137	27	30	
Surrogate: o-Terphenyl	0.0149		"	0.0250		59	65-135			QS-4



CALIFORNIA LABORATORY SERVICES

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Teichert Aggregates
3500 American River Dr
Sacramento, CA 95851

Project: Martis 2020 Quarterly Groundwater Sampling
Project Number: 1471-7750
Project Manager: Bill Christner

CLS Work Order #: 20L1149
COC #:

TPH-Gasoline by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2010451 - EPA 5030 Water MS

Blank (2010451-BLK1)

Prepared & Analyzed: 12/22/20

Gasoline	ND	50	µg/L							
Surrogate: Toluene-d8	9.41		"	10.0		94	65-135			

LCS (2010451-BS1)

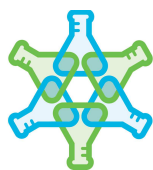
Prepared & Analyzed: 12/22/20

Gasoline	548	50	µg/L	500		110	70-130			
Surrogate: Toluene-d8	10.0		"	10.0		100	65-135			

LCS Dup (2010451-BSD1)

Prepared & Analyzed: 12/22/20

Gasoline	505	50	µg/L	500		101	70-130	8	30	
Surrogate: Toluene-d8	9.88		"	10.0		99	65-135			



CALIFORNIA LABORATORY SERVICES

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12/30/20 11:19

Teichert Aggregates
3500 American River Dr
Sacramento, CA 95851

Project: Martis 2020 Quarterly Groundwater Sampling
Project Number: 1471-7750
Project Manager: Bill Christner

CLS Work Order #: 20L1149
COC #:

Notes and Definitions

QS-4	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit (or method detection limit when specified)
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference



CALIFORNIA LABORATORY SERVICES

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October 08, 2020

CLS Work Order #: 20J0001

COC #:

Bill Christner
Teichert Aggregates
3500 American River Dr
Sacramento, CA 95851

Project Name: Martis 3Q19 GW

Enclosed are the results of analyses for samples received by the laboratory on 10/01/20 09:30. Samples were analyzed pursuant to client request utilizing EPA or other ELAP approved methodologies. I certify that the results are in compliance both technically and for completeness.

Analytical results are attached to this letter. Please call if we can provide additional assistance.

Sincerely,

James Liang, Ph.D.
Laboratory Director

CA SWRCB ELAP Accreditation/Registration number 1233

CALIFORNIA LABORATORY SERVICES CHAIN OF CUSTODY

CLS ID. NO. 2050001 (1 of 1)

Report To: Teichert Aggregates attn.: Bill Christner wchristner@teichert.com				Client Job Number 1471-7750		ANALYSIS REQUESTED				GEOTRACKER EDE REPORT NO.			
Invoice To: Same 3500 American River Drive, Sacramento, CA 95864				Destination Laboratory <input checked="" type="checkbox"/> CLS (916) 638-7301 3249 Fitzgerald Road Rancho Cordova, CA 95742 www.californialab.com		<div style="display: flex; flex-direction: column; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg); font-weight: bold;">PRESERVATIVES</div> <div style="display: flex; flex-direction: column; align-items: center;"> <div>TPHd & motor oil (8015M)</div> <div>TPH oil & grease (1664A)</div> <div>BTEX (8260B)</div> <div>TPHg (8260B)</div> </div> </div>				GLOBAL ID:			
Project Manager: Bill Christner 916-480-5523				<input type="checkbox"/> OTHER						FIELD CONDITIONS:			
Project Name Martis 3Q19 GW										COMPOSITE:			
Sampled By: Bill Christner										<div style="display: flex; justify-content: space-between;"> <div>TURNAROUND TIME IN DAYS</div> <div>SPECIAL INSTRUCTIONS</div> </div>			
Job Description Martis Plant WDR samples													
Site Location Truckee													

DATE	TIME	SAMPLE IDENTIFICATION	FIELD ID.	CONTAINER														TURNAROUND TIME IN DAYS				SPECIAL INSTRUCTIONS
				MATRIX	NO.	TYPE												1	2	5	10	
9/30/2020	0920	MW-33		Water	1 1 3	250 AG 1LAG 50mIVOA	3 3 1	X	X	X	X											X
	1210	MW-40		Water	1 1 3	250 AG 1LAG 50mIVOA	3 3 1	X	X	X	X											X
	1030	Plant Well		Water	1 1 3	250 AG 1LAG 50mIVOA	3 3 1	X	X	X	X											X

SUSPECTED CONSTITUENTS				SAMPLE RETENTION TIME				PRESERVATIVES (1) HCl (3) = COLD (2) HNO ₃ (4) = Na ₂ SO ₃			
RELINQUISHED BY (Signature) 		PRINT NAME/COMPANY Bill Christner/Teichert Aggregates		DATE/TIME 9/1/20/0930		RECEIVED BY (Signature)		PRINT NAME/COMPANY			
RECEIVED AT LAB BY:				DATE/TIME: 10/1/20 0930		CONDITIONS/COMMENTS: (1,4)					
SHIPPED BY:		<input type="checkbox"/> FED EX		<input type="checkbox"/> UPS		<input type="checkbox"/> OTHER		AIR BILL #			



CALIFORNIA LABORATORY SERVICES

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Teichert Aggregates
3500 American River Dr
Sacramento, CA 95851

Project: Martis 3Q19 GW
Project Number: 1471-7750
Project Manager: Bill Christner

CLS Work Order #: 20J0001
COC #:

Conventional Chemistry Parameters by APHA/EPA Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-33 (20J0001-01) Water Sampled: 09/30/20 09:20 Received: 10/01/20 09:30									
Hexane Extractable Material (HEM, Oil & Grease)	ND	5.0	mg/L	1	2008019	10/02/20	10/05/20	EPA 1664B	
MW-40 (20J0001-02) Water Sampled: 09/30/20 12:10 Received: 10/01/20 09:30									
Hexane Extractable Material (HEM, Oil & Grease)	ND	5.0	mg/L	1	2008019	10/02/20	10/05/20	EPA 1664B	
Plant Well (20J0001-03) Water Sampled: 09/30/20 10:30 Received: 10/01/20 09:30									
Hexane Extractable Material (HEM, Oil & Grease)	ND	5.0	mg/L	1	2008019	10/02/20	10/05/20	EPA 1664B	



CALIFORNIA LABORATORY SERVICES

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Teichert Aggregates
3500 American River Dr
Sacramento, CA 95851

Project: Martis 3Q19 GW
Project Number: 1471-7750
Project Manager: Bill Christner

CLS Work Order #: 20J0001
COC #:

Extractable Petroleum Hydrocarbons by EPA Method 8015M

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-33 (20J0001-01) Water Sampled: 09/30/20 09:20 Received: 10/01/20 09:30									
Diesel	ND	0.050	mg/L	1	2008183	10/07/20	10/07/20	EPA 8015M	
Motor Oil	ND	0.050	"	"	"	"	"	"	
Surrogate: o-Terphenyl		107 %	65-135		"	"	"	"	
MW-40 (20J0001-02) Water Sampled: 09/30/20 12:10 Received: 10/01/20 09:30									
Diesel	ND	0.050	mg/L	1	2008183	10/07/20	10/07/20	EPA 8015M	
Motor Oil	ND	0.050	"	"	"	"	"	"	
Surrogate: o-Terphenyl		127 %	65-135		"	"	"	"	
Plant Well (20J0001-03) Water Sampled: 09/30/20 10:30 Received: 10/01/20 09:30									
Diesel	ND	0.050	mg/L	1	2008183	10/07/20	10/07/20	EPA 8015M	
Motor Oil	ND	0.050	"	"	"	"	"	"	
Surrogate: o-Terphenyl		102 %	65-135		"	"	"	"	



CALIFORNIA LABORATORY SERVICES

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Teichert Aggregates
3500 American River Dr
Sacramento, CA 95851

Project: Martis 3Q19 GW
Project Number: 1471-7750
Project Manager: Bill Christner

CLS Work Order #: 20J0001
COC #:

TPH-Gasoline by GC/MS

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-33 (20J0001-01) Water Sampled: 09/30/20 09:20 Received: 10/01/20 09:30									
Gasoline	ND	50	µg/L	1	2007998	10/01/20	10/01/20	EPA 8260M	
Surrogate: Toluene-d8		100 %	65-135		"	"	"	"	
MW-40 (20J0001-02) Water Sampled: 09/30/20 12:10 Received: 10/01/20 09:30									
Gasoline	ND	50	µg/L	1	2007998	10/01/20	10/01/20	EPA 8260M	
Surrogate: Toluene-d8		94 %	65-135		"	"	"	"	
Plant Well (20J0001-03) Water Sampled: 09/30/20 10:30 Received: 10/01/20 09:30									
Gasoline	ND	50	µg/L	1	2007998	10/01/20	10/01/20	EPA 8260M	
Surrogate: Toluene-d8		82 %	65-135		"	"	"	"	



CALIFORNIA LABORATORY SERVICES

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Teichert Aggregates
3500 American River Dr
Sacramento, CA 95851

Project: Martis 3Q19 GW
Project Number: 1471-7750
Project Manager: Bill Christner

CLS Work Order #: 20J0001
COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-33 (20J0001-01) Water Sampled: 09/30/20 09:20 Received: 10/01/20 09:30									
Benzene	ND	0.50	µg/L	1	2007998	10/01/20	10/01/20	EPA 8260B	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	
<i>Surrogate: Toluene-d8</i>									
		100 %	72-125		"	"	"	"	
MW-40 (20J0001-02) Water Sampled: 09/30/20 12:10 Received: 10/01/20 09:30									
Benzene	ND	0.50	µg/L	1	2007998	10/01/20	10/01/20	EPA 8260B	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	
<i>Surrogate: Toluene-d8</i>									
		94 %	72-125		"	"	"	"	
Plant Well (20J0001-03) Water Sampled: 09/30/20 10:30 Received: 10/01/20 09:30									
Benzene	ND	0.50	µg/L	1	2007998	10/01/20	10/01/20	EPA 8260B	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	
<i>Surrogate: Toluene-d8</i>									
		82 %	72-125		"	"	"	"	



CALIFORNIA LABORATORY SERVICES

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10/08/20 16:24

Teichert Aggregates
3500 American River Dr
Sacramento, CA 95851

Project: Martis 3Q19 GW
Project Number: 1471-7750
Project Manager: Bill Christner

CLS Work Order #: 20J0001
COC #:

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch 2008019 - Solvent Extract

Blank (2008019-BLK1)

Prepared: 10/02/20 Analyzed: 10/05/20

Hexane Extractable Material (HEM, Oil & Grease)	ND	5.0	mg/L
---	----	-----	------

LCS (2008019-BS1)

Prepared: 10/02/20 Analyzed: 10/05/20

Hexane Extractable Material (HEM, Oil & Grease)	38.2	5.0	mg/L	40.0	96	78-114
---	------	-----	------	------	----	--------

LCS Dup (2008019-BSD1)

Prepared: 10/02/20 Analyzed: 10/05/20

Hexane Extractable Material (HEM, Oil & Grease)	37.7	5.0	mg/L	40.0	94	78-114	1	18
---	------	-----	------	------	----	--------	---	----



CALIFORNIA LABORATORY SERVICES

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10/08/20 16:24

Teichert Aggregates
3500 American River Dr
Sacramento, CA 95851

Project: Martis 3Q19 GW
Project Number: 1471-7750
Project Manager: Bill Christner

CLS Work Order #: 20J0001
COC #:

Extractable Petroleum Hydrocarbons by EPA Method 8015M - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2008183 - EPA 3510B GCNV										
Blank (2008183-BLK1)				Prepared & Analyzed: 10/07/20						
Diesel	ND	0.050	mg/L							
Motor Oil	ND	0.050	"							
Surrogate: o-Terphenyl	0.0288		"	0.0250		115	65-135			
LCS (2008183-BS1)				Prepared & Analyzed: 10/07/20						
Diesel	2.03	0.050	mg/L	2.50		81	65-135			
Surrogate: o-Terphenyl	0.0246		"	0.0250		98	65-135			
LCS Dup (2008183-BSD1)				Prepared & Analyzed: 10/07/20						
Diesel	2.21	0.050	mg/L	2.50		88	65-135	9	30	
Surrogate: o-Terphenyl	0.0285		"	0.0250		114	65-135			
Matrix Spike (2008183-MS1)				Source: 20J0312-01	Prepared & Analyzed: 10/07/20					
Diesel	1.66	0.050	mg/L	2.50	ND	66	46-137			
Surrogate: o-Terphenyl	0.0153		"	0.0250		61	65-135			QS-4
Matrix Spike Dup (2008183-MSD1)				Source: 20J0312-01	Prepared & Analyzed: 10/07/20					
Diesel	1.99	0.050	mg/L	2.50	ND	80	46-137	18	30	
Surrogate: o-Terphenyl	0.0192		"	0.0250		77	65-135			



CALIFORNIA LABORATORY SERVICES

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10/08/20 16:24

Teichert Aggregates
3500 American River Dr
Sacramento, CA 95851

Project: Martis 3Q19 GW
Project Number: 1471-7750
Project Manager: Bill Christner

CLS Work Order #: 20J0001
COC #:

TPH-Gasoline by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 2007998 - EPA 5030 Water MS

Blank (2007998-BLK1)

Prepared & Analyzed: 10/01/20

Gasoline	ND	50	µg/L							
Surrogate: Toluene-d8	10.0		"	10.0		100	65-135			

LCS (2007998-BS1)

Prepared & Analyzed: 10/01/20

Gasoline	493	50	µg/L	500		99	70-130			
Surrogate: Toluene-d8	9.40		"	10.0		94	65-135			

LCS Dup (2007998-BSD1)

Prepared & Analyzed: 10/01/20

Gasoline	540	50	µg/L	500		108	70-130	9	30	
Surrogate: Toluene-d8	9.69		"	10.0		97	65-135			



CALIFORNIA LABORATORY SERVICES

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Page 9 of 10

10/08/20 16:24

Teichert Aggregates
3500 American River Dr
Sacramento, CA 95851

Project: Martis 3Q19 GW
Project Number: 1471-7750
Project Manager: Bill Christner

CLS Work Order #: 20J0001
COC #:

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 2007998 - EPA 5030 Water MS

Blank (2007998-BLK1)

Prepared & Analyzed: 10/01/20

Di-isopropyl ether	ND	0.50	µg/L							
Ethyl tert-butyl ether	ND	0.50	"							
Methyl tert-butyl ether	ND	0.50	"							
tert-Amyl methyl ether	ND	0.50	"							
tert-Butyl alcohol	ND	5.0	"							
Surrogate: Toluene-d8	10.0		"	10.0		100	72-125			

LCS (2007998-BS1)

Prepared & Analyzed: 10/01/20

Methyl tert-butyl ether	20.0	0.50	µg/L	20.0		100	52-130			
Surrogate: Toluene-d8	9.40		"	10.0		94	72-125			

LCS Dup (2007998-BSD1)

Prepared & Analyzed: 10/01/20

Methyl tert-butyl ether	16.7	0.50	µg/L	20.0		84	52-130	18	30	
Surrogate: Toluene-d8	9.69		"	10.0		97	72-125			



CALIFORNIA LABORATORY SERVICES

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10/08/20 16:24

Teichert Aggregates
3500 American River Dr
Sacramento, CA 95851

Project: Martis 3Q19 GW
Project Number: 1471-7750
Project Manager: Bill Christner

CLS Work Order #: 20J0001
COC #:

Notes and Definitions

QS-4	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit (or method detection limit when specified)
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference



CALIFORNIA LABORATORY SERVICES

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July 08, 2020

CLS Work Order #: 20F1460

COC #:

Bill Christner
Teichert Aggregates
3500 American River Dr
Sacramento, CA 95851

**Project Name: Martis Plant Quarterly GW
Monitoring**

Enclosed are the results of analyses for samples received by the laboratory on 06/30/20 11:00. Samples were analyzed pursuant to client request utilizing EPA or other ELAP approved methodologies. I certify that the results are in compliance both technically and for completeness.

Analytical results are attached to this letter. Please call if we can provide additional assistance.



Sincerely,

James Liang, Ph.D.
Laboratory Director

CA SWRCB ELAP Accreditation/Registration number 1233

CALIFORNIA LABORATORY SERVICES CHAIN OF CUSTODY

CLS ID. NO. 20F1460 (1 of 1)

Report To: Teichert Aggregates attn: Bill Christner wchristner@teichert.com				Client Job Number				ANALYSIS REQUESTED								GEOTRACKER EDF REPORT NO							
Invoice To: wchristner@teichert.com				Destination Laboratory												GLOBAL ID.							
3500 American River Drive, Sacramento, CA 95864				<input checked="" type="checkbox"/> CLS (916) 638-7301 3249 Fitzgerald Road Rancho Cordova, CA 95742 www.californialab.com <input type="checkbox"/> OTHER				PRESERVATIVES TPHd & motor oil (8015M) TPH oil & grease (1664A) BTEX (8260B) TPHg (8260B)								FIELD CONDITIONS							
Project Manager : Bill Christner 916-480-5523																COMPOSITE:							
Project Name: Martis Plant Quarterly GW Monitoring																TURNAROUND TIME IN DAYS				SPECIAL INSTRUCTIONS			
Sampled By: Bill Christner																1				2			
Job Description: Martis Plant WDR Ground Water Samples																							
Site Location Truckee																							
DATE	TIME	SAMPLE IDENTIFICATION	FIELD ID.	MATRIX	NO.	TYPE																	
6/29/20	0950	MW-33		Water	1	250 AG	3	X	X	X	X												
					1	1L AG	3																
					3	50mlVOA	1																
	1215	MW-40		Water	1	250 AG	3	X	X	X	X												
					1	1L AG	3																
					3	50mlVOA	1																
	1100	Plant Well		Water	1	250 AG	3	X	X	X	X												
					1	1L AG	3																
					3	50mlVOA	1																
SUSPECTED CONSTITUENTS							SAMPLE RETENTION TIME				PRESERVATIVES (1) HCL (3) - COLD (2) HNO ₃ (4) - Na ₂ SO ₃												
RELINQUISHED BY (Signature) 		PRINT NAME COMPANY Bill Christner/Teichert Aggregates		DATE/TIME 6/30/20/1100		RECEIVED BY (Signature)		PRINT NAME COMPANY															
RECEIVED AT LAB BY:		DATE/TIME:		CONDITIONS/COMMENTS:																			
SHIPPED BY:		<input type="checkbox"/> FED EX <input type="checkbox"/> UPS <input type="checkbox"/> OTHER		AIR BILL #																			



CALIFORNIA LABORATORY SERVICES

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Page 2 of 10

07/08/20 11:17

Teichert Aggregates
3500 American River Dr
Sacramento, CA 95851

Project: Martis Plant Quarterly GW Monitoring
Project Number: [none]
Project Manager: Bill Christner

CLS Work Order #: 20F1460
COC #:

Conventional Chemistry Parameters by APHA/EPA Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-33 (20F1460-01) Water Sampled: 06/29/20 09:50 Received: 06/30/20 11:00									
Hexane Extractable Material (HEM, Oil & Grease)	ND	5.0	mg/L	1	2005130	07/01/20	07/06/20	EPA 1664B	
MW-40 (20F1460-02) Water Sampled: 06/29/20 12:15 Received: 06/30/20 11:00									
Hexane Extractable Material (HEM, Oil & Grease)	ND	5.0	mg/L	1	2005130	07/01/20	07/06/20	EPA 1664B	
Plant Well (20F1460-03) Water Sampled: 06/29/20 11:00 Received: 06/30/20 11:00									
Hexane Extractable Material (HEM, Oil & Grease)	ND	5.0	mg/L	1	2005130	07/01/20	07/06/20	EPA 1664B	



CALIFORNIA LABORATORY SERVICES

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Page 3 of 10

07/08/20 11:17

Teichert Aggregates
3500 American River Dr
Sacramento, CA 95851

Project: Martis Plant Quarterly GW Monitoring
Project Number: [none]
Project Manager: Bill Christner

CLS Work Order #: 20F1460
COC #:

Extractable Petroleum Hydrocarbons by EPA Method 8015M

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-33 (20F1460-01) Water Sampled: 06/29/20 09:50 Received: 06/30/20 11:00									
Diesel	ND	0.050	mg/L	1	2005142	07/01/20	07/01/20	EPA 8015M	
Motor Oil	ND	0.050	"	"	"	"	"	"	
Surrogate: o-Terphenyl		114 %	65-135		"	"	"	"	
MW-40 (20F1460-02) Water Sampled: 06/29/20 12:15 Received: 06/30/20 11:00									
Diesel	ND	0.050	mg/L	1	2005142	07/01/20	07/01/20	EPA 8015M	
Motor Oil	ND	0.050	"	"	"	"	"	"	
Surrogate: o-Terphenyl		87 %	65-135		"	"	"	"	
Plant Well (20F1460-03) Water Sampled: 06/29/20 11:00 Received: 06/30/20 11:00									
Diesel	ND	0.050	mg/L	1	2005142	07/01/20	07/01/20	EPA 8015M	
Motor Oil	ND	0.050	"	"	"	"	"	"	
Surrogate: o-Terphenyl		121 %	65-135		"	"	"	"	



CALIFORNIA LABORATORY SERVICES

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07/08/20 11:17

Teichert Aggregates
3500 American River Dr
Sacramento, CA 95851

Project: Martis Plant Quarterly GW Monitoring
Project Number: [none]
Project Manager: Bill Christner

CLS Work Order #: 20F1460
COC #:

TPH-Gasoline by GC/MS

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

MW-33 (20F1460-01) Water Sampled: 06/29/20 09:50 Received: 06/30/20 11:00

Gasoline	ND	50	µg/L	1	2005199	07/02/20	07/02/20	EPA 8260M	
----------	----	----	------	---	---------	----------	----------	-----------	--

Surrogate: Toluene-d8	86 %	65-135			"	"	"	"	
-----------------------	------	--------	--	--	---	---	---	---	--

MW-40 (20F1460-02) Water Sampled: 06/29/20 12:15 Received: 06/30/20 11:00

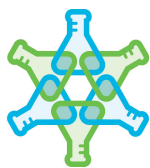
Gasoline	ND	50	µg/L	1	2005199	07/02/20	07/02/20	EPA 8260M	
----------	----	----	------	---	---------	----------	----------	-----------	--

Surrogate: Toluene-d8	85 %	65-135			"	"	"	"	
-----------------------	------	--------	--	--	---	---	---	---	--

Plant Well (20F1460-03) Water Sampled: 06/29/20 11:00 Received: 06/30/20 11:00

Gasoline	ND	50	µg/L	1	2005199	07/02/20	07/02/20	EPA 8260M	
----------	----	----	------	---	---------	----------	----------	-----------	--

Surrogate: Toluene-d8	84 %	65-135			"	"	"	"	
-----------------------	------	--------	--	--	---	---	---	---	--



CALIFORNIA LABORATORY SERVICES

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07/08/20 11:17

Teichert Aggregates
3500 American River Dr
Sacramento, CA 95851

Project: Martis Plant Quarterly GW Monitoring
Project Number: [none]
Project Manager: Bill Christner

CLS Work Order #: 20F1460
COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

MW-33 (20F1460-01) Water Sampled: 06/29/20 09:50 Received: 06/30/20 11:00

Benzene	ND	0.50	µg/L	1	2005199	07/02/20	07/02/20	EPA 8260B	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Surrogate: Toluene-d8 86 % 72-125 " " " "

MW-40 (20F1460-02) Water Sampled: 06/29/20 12:15 Received: 06/30/20 11:00

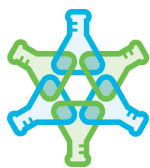
Benzene	ND	0.50	µg/L	1	2005199	07/02/20	07/02/20	EPA 8260B	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Surrogate: Toluene-d8 85 % 72-125 " " " "

Plant Well (20F1460-03) Water Sampled: 06/29/20 11:00 Received: 06/30/20 11:00

Benzene	ND	0.50	µg/L	1	2005199	07/02/20	07/02/20	EPA 8260B	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Surrogate: Toluene-d8 84 % 72-125 " " " "



CALIFORNIA LABORATORY SERVICES

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Page 6 of 10

07/08/20 11:17

Teichert Aggregates
3500 American River Dr
Sacramento, CA 95851

Project: Martis Plant Quarterly GW Monitoring
Project Number: [none]
Project Manager: Bill Christner

CLS Work Order #: 20F1460
COC #:

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch 2005130 - Solvent Extract

Blank (2005130-BLK1)

Prepared: 07/01/20 Analyzed: 07/06/20

Hexane Extractable Material (HEM, Oil & Grease) ND 5.0 mg/L

LCS (2005130-BS1)

Prepared: 07/01/20 Analyzed: 07/06/20

Hexane Extractable Material (HEM, Oil & Grease) 39.4 5.0 mg/L 40.0 99 78-114

LCS Dup (2005130-BSD1)

Prepared: 07/01/20 Analyzed: 07/06/20

Hexane Extractable Material (HEM, Oil & Grease) 39.3 5.0 mg/L 40.0 98 78-114 0.3 18



CALIFORNIA LABORATORY SERVICES

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07/08/20 11:17

Teichert Aggregates
3500 American River Dr
Sacramento, CA 95851

Project: Martis Plant Quarterly GW Monitoring
Project Number: [none]
Project Manager: Bill Christner

CLS Work Order #: 20F1460
COC #:

Extractable Petroleum Hydrocarbons by EPA Method 8015M - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 2005142 - EPA 3510B GCNV

Blank (2005142-BLK1)

Prepared & Analyzed: 07/01/20

Diesel	ND	0.050	mg/L							
Motor Oil	ND	0.050	"							
Surrogate: o-Terphenyl	0.0276		"	0.0250		110	65-135			

LCS (2005142-BS1)

Prepared & Analyzed: 07/01/20

Diesel	1.93	0.050	mg/L	2.50		77	65-135			
Surrogate: o-Terphenyl	0.0330		"	0.0250		132	65-135			

LCS Dup (2005142-BSD1)

Prepared & Analyzed: 07/01/20

Diesel	1.86	0.050	mg/L	2.50		74	65-135	4	30	
Surrogate: o-Terphenyl	0.0290		"	0.0250		116	65-135			

Matrix Spike (2005142-MS1)

Source: 20F1469-01

Prepared & Analyzed: 07/01/20

Diesel	1.86	0.050	mg/L	2.50	ND	75	46-137			
Surrogate: o-Terphenyl	0.0213		"	0.0250		85	65-135			

Matrix Spike Dup (2005142-MSD1)

Source: 20F1469-01

Prepared & Analyzed: 07/01/20

Diesel	2.08	0.050	mg/L	2.50	ND	83	46-137	11	30	
Surrogate: o-Terphenyl	0.0302		"	0.0250		121	65-135			



CALIFORNIA LABORATORY SERVICES

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Page 8 of 10

07/08/20 11:17

Teichert Aggregates
3500 American River Dr
Sacramento, CA 95851

Project: Martis Plant Quarterly GW Monitoring
Project Number: [none]
Project Manager: Bill Christner

CLS Work Order #: 20F1460
COC #:

TPH-Gasoline by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 2005199 - EPA 5030 Water MS

Blank (2005199-BLK1)

Prepared & Analyzed: 07/02/20

Gasoline	ND	50	µg/L							
Surrogate: Toluene-d8	8.23		"	10.0		82	65-135			

LCS (2005199-BS1)

Prepared & Analyzed: 07/02/20

Gasoline	467	50	µg/L	500		93	70-130			
Surrogate: Toluene-d8	9.17		"	10.0		92	65-135			

LCS Dup (2005199-BSD1)

Prepared & Analyzed: 07/02/20

Gasoline	470	50	µg/L	500		94	70-130	0.8	30	
Surrogate: Toluene-d8	9.39		"	10.0		94	65-135			



CALIFORNIA LABORATORY SERVICES

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Page 9 of 10

07/08/20 11:17

Teichert Aggregates
3500 American River Dr
Sacramento, CA 95851

Project: Martis Plant Quarterly GW Monitoring
Project Number: [none]
Project Manager: Bill Christner

CLS Work Order #: 20F1460
COC #:

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 2005199 - EPA 5030 Water MS

Blank (2005199-BLK1)

Prepared & Analyzed: 07/02/20

Di-isopropyl ether	ND	0.50	µg/L							
Ethyl tert-butyl ether	ND	0.50	"							
Methyl tert-butyl ether	ND	0.50	"							
tert-Amyl methyl ether	ND	0.50	"							
tert-Butyl alcohol	ND	5.0	"							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	1.0	"							
Surrogate: Toluene-d8	8.23		"	10.0		82	72-125			

LCS (2005199-BS1)

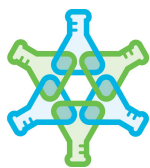
Prepared & Analyzed: 07/02/20

Methyl tert-butyl ether	17.7	0.50	µg/L	20.0		89	52-130			
Benzene	16.5	0.50	"	20.0		82	52-130			
Surrogate: Toluene-d8	9.17		"	10.0		92	72-125			

LCS Dup (2005199-BS1)

Prepared & Analyzed: 07/02/20

Methyl tert-butyl ether	18.4	0.50	µg/L	20.0		92	52-130	4	30	
Benzene	17.5	0.50	"	20.0		88	52-130	6	30	
Surrogate: Toluene-d8	9.39		"	10.0		94	72-125			



CALIFORNIA LABORATORY SERVICES

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Page 10 of 10

07/08/20 11:17

Teichert Aggregates
3500 American River Dr
Sacramento, CA 95851

Project: Martis Plant Quarterly GW Monitoring
Project Number: [none]
Project Manager: Bill Christner

CLS Work Order #: 20F1460

COC #:

Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit (or method detection limit when specified)
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference



CALIFORNIA LABORATORY SERVICES

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February 03, 2020

CLS Work Order #: 20A1375

COC #:

Bill Christner
Teichert Aggregates
P.O. Box 15002, 3500 American River Dr.
Sacramento, CA 95851

**Project Name: Martis 4Q19 Groundwater
Monitoring**

Enclosed are the results of analyses for samples received by the laboratory on 01/27/20 15:41. Samples were analyzed pursuant to client request utilizing EPA or other ELAP approved methodologies. I certify that the results are in compliance both technically and for completeness.

Analytical results are attached to this letter. Please call if we can provide additional assistance.

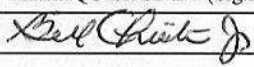

Sincerely,

James Liang, Ph.D.
Laboratory Director

CA SWRCB ELAP Accreditation/Registration number 1233

CALIFORNIA LABORATORY SERVICES CHAIN OF CUSTODY

CLS ID. NO. 204 1375 (1 of 1)

Report To: Teichert Aggregates attn.: Bill Christner wchristner@teichert.com				Client Job Number 1471-7750				ANALYSIS REQUESTED				GEOTRACKER EDF REPORT NO GLOBAL ID. FIELD CONDITIONS: COMPOSITE: TURNAROUND TIME IN DAYS 1 2 5 10 SPECIAL INSTRUCTIONS					
Invoice To: Bill Christner 3500 American River Drive, Sacramento, CA 95864				Destination Laboratory <input checked="" type="checkbox"/> CLS (916) 638-7301 3249 Fitzgerald Road Rancho Cordova, CA 95742 www.californialab.com <input type="checkbox"/> OTHER													
Project Manager : Bill Christner 916-480-5523				<div style="writing-mode: vertical-rl; transform: rotate(180deg); font-weight: bold; font-size: small;">PRESERVATIVES</div> <div style="display: flex; justify-content: space-between; padding: 5px;"> <div>TPHd & motor oil (8015M)</div> <div>TPH oil & grease (1664A)</div> <div>BTEX (8260B)</div> <div>TPHg (8260B)</div> </div>													
Project Name Martis 4Q19 Groundwater Monitoring																	
Sampled By: Bill Christner																	
Job Description Martis Plant WDR samples																	
Site Location Truckee																	
DATE	TIME	SAMPLE IDENTIFICATION	FIELD ID.	MATRIX	NO.	TYPE											
1/24/20	1000	MW-33		Water	1 1 3	250 AG 1LAG 50mlVOA	3 3 1	X	X	X	X						
1/24/20	0855	MW-40		Water	1 1 3	250 AG 1LAG 50mlVOA	3 3 1	X	X	X	X						
1/24/20	1040	Plant Well		Water	1 1 3	250 AG 1LAG 50mlVOA	3 3 1	X	X	X	X						
SUSPECTED CONSTITUENTS							SAMPLE RETENTION TIME				PRESERVATIVES (1) HCL (3) = COLD (2) HNO ₃ (4) = Na ₂ SO ₃						
RELINQUISHED BY (Signature)			PRINT NAME/COMPANY			DATE/TIME		RECEIVED BY (Signature)				PRINT NAME/COMPANY					
			Bill Christner/Teichert Aggregates			1/27/20/1541											
RECEIVED AT LAB BY: 							DATE/TIME: 1-27-20 1541		CONDITIONS/COMMENTS: 2-8/1-6								
SHIPPED BY:		<input type="checkbox"/> FED EX <input type="checkbox"/> UPS <input type="checkbox"/> OTHER														AIR BILL #	



CALIFORNIA LABORATORY SERVICES

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02/03/20 11:06

Teichert Aggregates
P.O. Box 15002, 3500 American River Dr.
Sacramento, CA 95851

Project: Martis 4Q19 Groundwater Monitoring
Project Number: 1471-7750
Project Manager: Bill Christner

CLS Work Order #: 20A1375
COC #:

Conventional Chemistry Parameters by APHA/EPA Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-33 (20A1375-01) Water Sampled: 01/24/20 10:00 Received: 01/27/20 15:41									
Hexane Extractable Material (HEM, Oil & Grease)	ND	5.0	mg/L	1	2000729	01/28/20	01/29/20	EPA 1664B	
MW-40 (20A1375-02) Water Sampled: 01/24/20 08:55 Received: 01/27/20 15:41									
Hexane Extractable Material (HEM, Oil & Grease)	ND	5.0	mg/L	1	2000729	01/28/20	01/29/20	EPA 1664B	
Plant Well (20A1375-03) Water Sampled: 01/24/20 10:40 Received: 01/27/20 15:41									
Hexane Extractable Material (HEM, Oil & Grease)	ND	5.0	mg/L	1	2000729	01/28/20	01/29/20	EPA 1664B	



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Project: Martis 4Q19 Groundwater Monitoring
Project Number: 1471-7750
Project Manager: Bill Christner

CLS Work Order #: 20A1375
COC #:

Extractable Petroleum Hydrocarbons by EPA Method 8015M

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-33 (20A1375-01) Water Sampled: 01/24/20 10:00 Received: 01/27/20 15:41									
Diesel	ND	0.050	mg/L	1	2000695	01/28/20	01/28/20	EPA 8015M	
Motor Oil	ND	0.050	"	"	"	"	"	"	
Surrogate: o-Terphenyl		67 %	65-135		"	"	"	"	
MW-40 (20A1375-02) Water Sampled: 01/24/20 08:55 Received: 01/27/20 15:41									
Diesel	ND	0.050	mg/L	1	2000695	01/28/20	01/28/20	EPA 8015M	
Motor Oil	ND	0.050	"	"	"	"	"	"	
Surrogate: o-Terphenyl		105 %	65-135		"	"	"	"	
Plant Well (20A1375-03) Water Sampled: 01/24/20 10:40 Received: 01/27/20 15:41									
Diesel	ND	0.050	mg/L	1	2000695	01/28/20	01/28/20	EPA 8015M	
Motor Oil	0.10	0.050	"	"	"	"	"	"	
Surrogate: o-Terphenyl		66 %	65-135		"	"	"	"	



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Project: Martis 4Q19 Groundwater Monitoring
Project Number: 1471-7750
Project Manager: Bill Christner

CLS Work Order #: 20A1375
COC #:

TPH-Gasoline by GC/MS

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-33 (20A1375-01) Water Sampled: 01/24/20 10:00 Received: 01/27/20 15:41									
Gasoline	ND	50	µg/L	1	2000787	01/29/20	01/29/20	EPA 8260M	
Surrogate: Toluene-d8		100 %	65-135		"	"	"	"	
MW-40 (20A1375-02) Water Sampled: 01/24/20 08:55 Received: 01/27/20 15:41									
Gasoline	ND	50	µg/L	1	2000787	01/29/20	01/29/20	EPA 8260M	
Surrogate: Toluene-d8		99 %	65-135		"	"	"	"	
Plant Well (20A1375-03) Water Sampled: 01/24/20 10:40 Received: 01/27/20 15:41									
Gasoline	ND	50	µg/L	1	2000787	01/29/20	01/29/20	EPA 8260M	
Surrogate: Toluene-d8		99 %	65-135		"	"	"	"	



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Project: Martis 4Q19 Groundwater Monitoring
Project Number: 1471-7750
Project Manager: Bill Christner

CLS Work Order #: 20A1375
COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-33 (20A1375-01) Water Sampled: 01/24/20 10:00 Received: 01/27/20 15:41									
Benzene	ND	0.50	µg/L	1	2000787	01/29/20	01/29/20	EPA 8260B	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	
<i>Surrogate: Toluene-d8</i>									
		100 %	72-125		"	"	"	"	
MW-40 (20A1375-02) Water Sampled: 01/24/20 08:55 Received: 01/27/20 15:41									
Benzene	ND	0.50	µg/L	1	2000787	01/29/20	01/29/20	EPA 8260B	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	
<i>Surrogate: Toluene-d8</i>									
		99 %	72-125		"	"	"	"	
Plant Well (20A1375-03) Water Sampled: 01/24/20 10:40 Received: 01/27/20 15:41									
Benzene	ND	0.50	µg/L	1	2000787	01/29/20	01/29/20	EPA 8260B	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	
<i>Surrogate: Toluene-d8</i>									
		99 %	72-125		"	"	"	"	



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Project Manager: Bill Christner

CLS Work Order #: 20A1375
COC #:

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch 2000729 - Solvent Extract

Blank (2000729-BLK1)

Prepared: 01/28/20 Analyzed: 01/29/20

Hexane Extractable Material (HEM, Oil & Grease)	ND	5.0	mg/L
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LCS (2000729-BS1)

Prepared: 01/28/20 Analyzed: 01/29/20

Hexane Extractable Material (HEM, Oil & Grease)	39.1	5.0	mg/L	40.0	98	78-114
---	------	-----	------	------	----	--------

LCS Dup (2000729-BSD1)

Prepared: 01/28/20 Analyzed: 01/29/20

Hexane Extractable Material (HEM, Oil & Grease)	39.0	5.0	mg/L	40.0	98	78-114	0.3	18
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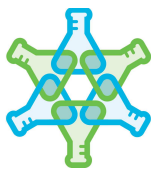
Teichert Aggregates
P.O. Box 15002, 3500 American River Dr.
Sacramento, CA 95851

Project: Martis 4Q19 Groundwater Monitoring
Project Number: 1471-7750
Project Manager: Bill Christner

CLS Work Order #: 20A1375
COC #:

Extractable Petroleum Hydrocarbons by EPA Method 8015M - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2000695 - EPA 3510B GCNV										
Blank (2000695-BLK1)				Prepared & Analyzed: 01/27/20						
Diesel	ND	0.050	mg/L							
Motor Oil	ND	0.050	"							
Surrogate: o-Terphenyl	0.0234		"	0.0250		94	65-135			
LCS (2000695-BS1)				Prepared & Analyzed: 01/27/20						
Diesel	1.82	0.050	mg/L	2.50		73	65-135			
Surrogate: o-Terphenyl	0.0228		"	0.0250		91	65-135			
LCS Dup (2000695-BSD1)				Prepared & Analyzed: 01/27/20						
Diesel	1.89	0.050	mg/L	2.50		76	65-135	4	30	
Surrogate: o-Terphenyl	0.0208		"	0.0250		83	65-135			
Matrix Spike (2000695-MS1)				Source: 20A1108-01	Prepared & Analyzed: 01/27/20					
Diesel	2.18	0.050	mg/L	2.50	ND	87	46-137			
Surrogate: o-Terphenyl	0.0231		"	0.0250		92	65-135			
Matrix Spike Dup (2000695-MSD1)				Source: 20A1108-01	Prepared & Analyzed: 01/27/20					
Diesel	1.79	0.050	mg/L	2.50	ND	72	46-137	20	30	
Surrogate: o-Terphenyl	0.0198		"	0.0250		79	65-135			



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CLS Work Order #: 20A1375
COC #:

TPH-Gasoline by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch 2000787 - EPA 5030 Water MS

Blank (2000787-BLK1)

Prepared & Analyzed: 01/29/20

Gasoline	ND	50	µg/L							
Surrogate: Toluene-d8	9.74		"	10.0		97	65-135			

LCS (2000787-BS1)

Prepared & Analyzed: 01/29/20

Gasoline	524	50	µg/L	500		105	70-130			
Surrogate: Toluene-d8	10.1		"	10.0		101	65-135			

LCS Dup (2000787-BSD1)

Prepared & Analyzed: 01/29/20

Gasoline	484	50	µg/L	500		97	70-130	8	30	
Surrogate: Toluene-d8	9.87		"	10.0		99	65-135			



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Project Manager: Bill Christner

CLS Work Order #: 20A1375
COC #:

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 2000787 - EPA 5030 Water MS

Blank (2000787-BLK1)

Prepared & Analyzed: 01/29/20

Di-isopropyl ether	ND	0.50	µg/L							
Ethyl tert-butyl ether	ND	0.50	"							
Methyl tert-butyl ether	ND	0.50	"							
tert-Amyl methyl ether	ND	0.50	"							
tert-Butyl alcohol	ND	5.0	"							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	1.0	"							
Surrogate: Toluene-d8	9.74		"	10.0		97	72-125			

LCS (2000787-BS1)

Prepared & Analyzed: 01/29/20

Methyl tert-butyl ether	23.2	0.50	µg/L	20.0		116	52-130			
Surrogate: Toluene-d8	10.1		"	10.0		101	72-125			

LCS Dup (2000787-BSD1)

Prepared & Analyzed: 01/29/20

Methyl tert-butyl ether	22.9	0.50	µg/L	20.0		115	52-130	1	30	
Surrogate: Toluene-d8	9.94		"	10.0		99	72-125			



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Project Number: 1471-7750
Project Manager: Bill Christner

CLS Work Order #: 20A1375
COC #:

Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit (or method detection limit when specified)
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

ATTACHMENT 4

FIELD NOTES

Dec 21, 2020 Morris Plant

- WDR GW monitoring
- Sunny, calm, 16°F
- Arrive @ 0905
- Speak with Scott Myro
- Drive to MW-33
 - crunchy snow, approx 4"
- All dirt piles have been spread
 - able to drive within 100 ft of well

MW-33

DTWBC = 32.94 ft

Temp °C	= 13.7	13.7	13.7
DO%	= 14.4	10.9	12.0
DO mg/L	= 1.44	1.13	1.25
SPL us/cm	= 454.9	486.7	494.3
pH	= 6.87	6.69	6.62
ORP mV	= -22.0	-6.4	3.6
NTU	= 38.6	18.5	9.14
Time	= 3:02.7	2:33.5	2:31.0
Volume	= 5 gal	10 gal	15 gal

- initial 5 gal v. turbid, dark
- 10 gal still v. turbid, dark but improving

- 15 gal v. clear, can see to bottom of 5 gal bucket
- collect WQ samples @ 0950

Stop #2 MUY Plant Well

Volume	5 gal	10 gal	15 gal
Temp °C	3.7	4.1	3.8
DO%	36.3	32.0	28.8
DO mg/L	4.74	4.16	3.79
SPL us/cm	357.2	355.9	359.4
pH	7.58	7.43	7.33
ORP mV	93.7	112.3	125.9
NTU	19.86	10.32	10.34
Time	3:43.1	3:35.9	3:40.1

- collect WQ @ 1045
- all water is clear
- Drive to MW-40

MW-40

DTWBC = 48.40 ft

over →

Volume	56al	106al	156al
Temp °C	13.9	14.1	14.1
DO %	2.4	0.3	-0.4
DO mg/L	0.23	0.02	-0.04
SPC uS/cm	544	542	541
pH	6.68	6.66	6.67
ORP mV	139.8	119.0 129.0	122.7
NTU	2.52	2.29	2.31
Time	3:37.4	3:33.5	

- collect WQ samples @ 1140
 - all water is clear
 - leave site @ 1205
- Bill Christ Jr.

Dec 21, 2020 TRQ Stormwater Basin

- stand pipe circumference = 27"
- PVC material
- Height above flange = 7'-8 1/4"
- Leave Site @ 1232

Bill Christ Jr.

Sept 30, 2020 MUY WDR Sampling
and Monitoring of Groundwater

- arrive @ 0830 and check-in
@ scalehouse

- drive to MW-

- check depth to water

DTWBC = 30.25 ft

	5 Gals	10 Gals	15 Gals
Temp °C	14.2	14.2	14.2
DO %	15.1	16.2	16.9
DO mg/L	1.53	1.66	1.73
SPC μ S/cm	440.9	461.5	497.3
pH	6.96	6.76	6.72
ORP mV	-8.3	23.6	32.7
Turbidity ntu	29.93	10.64	8.40
Time	2:30.15	2:33.37	2:42.92

- 5 Gals: v. turbid, black water

- 10 Gals: still turbid but clearing up

- 15 Gals: clear water

Leave site 1000

Drive to Plant Well

MUY Sept 30, 2020 Plat Weir

	5 Gal	10 Gal	10 Gal
Temp °C	12.6	11.0	12.4
DO %	24.2	80.3	34.6
DO mg/L	2.56	8.88	3.59
SPC us/cm	513	9.5	516
pH	7.04	5.75	7.21
ORP mV	85.1	11.3	93.2
Turbidity ntu	100.7	10.24	4.48
Time	2:41.32	4:13.92	4:13.92

	15 Gal
Temp	12.4
DO %	26.2
DO mg/L	2.76
SPC us/cm	516
pH	7.04
ORP mV	80.2
Turbidity ntu	15.92
Time	4:04.61

- forgot to insert multimeter probe during 10 gal interval

MUY MW-40

- Arrive @ 1110

- measure depth to water in well

DTWBC = 47.08

	5Gal	10Gal	15Gal
Temp °C	16.4		
DO %	3.5		
DO mg/L	0.34		
SPC uS/cm	6.56 56.7		
pH	1.50 6.56		
ORP mV	2150.2		
Turbidity ntu	2.02		
Time	3:20.12		

- only able to remove 5 gals
- pump runs but no water
- add tubing to pump line and drop pump to bottom of well
- still no water
- collect samples & measure parameters
- Leave site @ 1232

Sue Chastin Jr

June 29, 2020 0845

Marks Valley Plant.

Sign-in @ office and speak
with Ryan re: SWPPP and
monitoring reqs.

Step #1 - Drive to MW-33

- Arrive @ 0900

- set up equipment and perform
monitoring & sampling

DTWBC = 30.61 ft

	5 Gal	10 Gal	15 Gal
DO %	0.0	0.0	0.0
TDS mg/L	.275	.275	.274
ppt ppt	0.2		
Temp °C	10.87	10.97	10.89
pH	6.87	6.23	6.06
ORP mV	33	2.0	27
EC mS/cm	.424	.424	0.422
Turbidity ntu	8.6	52.2	8.2
DO mg/L	0.00	0.00	0.0
Time	3:31.5	3:31.6	

- 5 Gal very turbid/dark
- 10 Gal clear, no turbidity
- 15 Gal very turbid

Stop #2 Plant Well

Arrive @ 1040

- Measure parameters and collect water samples

	56al	106al	156al
Temp °C	13.77	12.37	12.15
pH	6.09	6.09	6.10
ORP mV	94	92	88
EC uS/cm	.537	.537	.538
Turbidity ntu	3.2	3.3	10.0
DO mg/L	0.00	0.00	0.00
DO %	0.0	0.0	0.00
TDS ppt	.343	.342	.342
Time	7:14.38	2:38.3	2:45.1

- All water is clear

Stop #3 MW-40 Arrive @ 1120

- Measure parameters and collect water samples

DTWBC = 46.20 ft

- depth measured from top of inside (plastic PVC) casing
(continued on p.14)

TRQ June 29, 2020
 MVY MW-40 Arrive @ 1120

	56al	706al	156al
Temp °C	11.83	11.70	11.68
pH	5.87	5.69	5.73
ORP mV	190	204	207
EC mS/cm	0.508	0.500	0.500
Turbidity ntu	0.0	0.0	0.0
DO mg/L	0.0	0.0	0.00
DO %	0.00	0.00	0.0
TDS mg/L	0.323	0.320	0.320
Time	4:00.3	3:54.54	3:54.65

- water clear

- issue with tubing disconnecting
 from pump upon initiation

- need to start pump slowly

Leave site @ 1236

Bill Christen Jr.

1/24/20 Marks Valley Plant
4th Quarter GW Monitoring

Arrive @ 0830

- Partly Cloudy / mostly cloudy, calm
~ 35°F

- call in to office, speak w/ S. Myers

Stop #1 MW-40

DTWBC = 46.81 ft

	5gals	10gals	15gals	
Time	3:13	3:07	2:59	11.7°C
pH			7.11	11.8°C
EC			482 μ S/cm	11.7°C
TDS			343 ppm	11.8°C

Collect samples & measure parameters

Calibrate meter per manual

Leave site @ 0920

38.

Stop #2 MW-33

Arrive @ 0935

Dept DTWBC = 30.17 ft

	5gals	10gals	15gals
Time	2:15	2:18	2:18
EC	= 377 μ S/cm		
TDS	= 267 ppm		
pH	= 7.02		

5 gallons is cloudy and a bit turbid
 10 gallons is still cloudy / turbid
 15 gallons is still cloudy but improved

Collect samples & measure parameters
 Leave site @ 1017

Stop #3 Plant Well Arrive @ 1021

5gals

Time 1:55 3:18 3:18

- collect samples & measure parameters

pH = 7.46 @ 21.1°C

EC = 324 μ S/cm

TDS = 227 ppm

Leave site @ 1042

Bill Christy Jr.

Rite in the Rain