Annual Report Format



National Pollutant Discharge Elimination System Stormwater Program MS4 Annual Report Format



| Check box if you are submitting an elements. | individual Annual Report with one of | or more coop | erative progra | am 🗵 | |
|--|--|-----------------|----------------|---------------|------------|
| Check box if you are submitting an | individual Annual Report with indiv | idual program | m elements or | nly. | |
| Check box if this is a new name, ac | ldress, etc. | | | | |
| 1. MS4(s) Information | | | | | |
| NMR04A014 City of Albuquerque | | | | | |
| Name of MS4 | | | | | |
| Kathleen | Verhage | | Senior Eng | gineer | |
| Name of Contact Person (First) | (Last) | | (Title) | | |
| (505) 768-3654 | kverhage@cabq.gov | |] | | |
| Telephone (including area code) | E-mail | | • | | |
| PO Box 1293, City of Albuquerque | e, Dept of Municipal Development, <i>i</i> | Attn: Kathy V | erhage Rm 3 | 801 | |
| Mailing Address | | | | | |
| Albuquerque | NM | | 87103 | | |
| City | State | | ZIP code | | |
| What size population does your MS | 54(s) serve? 546,000 | NPDES | number | | |
| What is the reporting period for this | s report? (mm/dd/yyyy) From | lul 1, 2021 | to Jur | 30, 2022 | |
| 2. Water Quality Priorities | | | | | |
| A. Does your MS4(s) dischar | ge to waters listed as impaired on a s | state 303(d) li | st? | les 🔲 No |) |
| | red water, the impairment, whether a s a wasteload allocation to your MS4 ary. | | | | |
| Impaired Water | Impairment | Approved | TMDL TM | IDL assigns V | VLA to MS4 |
| Middle Rio Grande | E-coli | X Yes | ☐ No | × Yes | ■ No |
| Middle Rio Grande | Temperature | Yes | ⊠ No | Yes | ■ No |
| Middle Rio Grande | Polychlorinated Biphenyls in 🖬 | Yes | ⊠ No | Yes | ■ No |
| Middle Rio Grande | Dissolved Oxygen | Yes | ⊠ No | Yes | No No |

| | | ontinued ed Water | Impairment | Approve | d TMDL I | MDL assigns | WLA to MS4 |
|---------------|----------------|---|--|---------------------------------|------------------------------|---------------------------------|--------------------------------|
| M | iddle | e Rio Grande | Mercury | Yes | ⊠ No | Yes | ■ No |
| | | | | | ■ No | Yes | ☐ No |
| Yes No Yes No | | | | | | | ☐ No |
| | | | | Yes | No No | Yes | ■ No |
| | C. | What specific sources co | ntributing to the impairment(s) are yo | ou targeting ir | your storm | water program | ? |
| Pe ar | et wa nd de | ste, household hazardous etergents. A "floatables st | s waste, trash and debris (including udy" and microbial source testing h | natural veget ave been per | ation), sedii formed. Bir | ments, automo ds are primary | otive fluids r source of E- |
| | D. | | high-quality waters (e.g., Tier 2, Tier state or federal designation)? | 3, outstandin | g natural | Yes | ⊠ No |
| | E. | Are you implementing ad | ditional specific provisions to ensure | their continu | ed integrity | Yes | ⊠ No |
| 3. | | pollutants? | ublic Participation program targeting specific pollutants fic sources and/or pollutants addresse | | | ⊠ Yes on program? | □ No |
| | | | argets pet waste, household hazard tive fluids, detergents, fertilizers, pe | | ash and deb | oris (including | natural |
| | C. | | outcome(s) (e.g., quantified reduction ble to your public education program | | | | blications) |
| | | | f individuals understood the import hold hazardous recycling event resu | | | | |
| | D. | | committee or other body comprised of sregular input on your stormwater pr | | ınd other | × Yes | ■ No |
| 4. | A. | Construction Do you have an ordinance | e or other regulatory mechanism stip | ulating: | | | |
| | | Erosion and sediment con | ntrol requirements? | | | X Yes | ☐ No |
| | | Other construction waste | control requirements? | | | X Yes | ☐ No |
| | | Requirement to submit co | onstruction plans for review? | | | X Yes | ■ No |
| | | MS4 enforcement author | ity? | | | X Yes | ☐ No |
| | В. | Do you have written prod | cedures for: | | | | |
| | | Reviewing construction p | plans? | | | X Yes | ☐ No |
| | | Performing inspections? | | | | X Yes | ■ No |
| | | Responding to violations | ? | | | ⊠ Yes | ☐ No |
| | C. | Identify the number of acreporting period. 220 | tive construction sites ≥ 1 acre in ope | eration in you | r jurisdiction | n at any time d | uring the |
| | D. | How many of the sites id | entified in 4.C did you inspect during | this reporting | g period? | 131 | |
| | E. | | e frequency with which your program | | | | |
| TI W | ne pr 'ater | imary inspector position v Quality performed 194 in | was vacant for 11.5 mo. during whic spections on 131 of the sites. On av | h time the pr erage, 15 insp | incipal in ch pections pe | arge of Const r month were | ruction Storm performed. |

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| F. | Do you prioritize certain construct | ion sites for more f | requent inspections? | | X Yes | No No | | |
|---------------------------------------|--|--|--|--|---|--|--|--|
| | If Yes, based on what criteria? | Sites with violatio | ns are prioritized unti | l compliance i | s achieved. | | | |
| G. | Identify which of the following typactivities, indicate the number of a | | | | | construction | | |
| | Yes Notice of violation | 46 | No Authority | | | | | |
| | Yes Administrative fines | 14 | No Authority | | | | | |
| | Yes Stop Work Orders | | No Authority | \boxtimes | | | | |
| | Yes Civil penalties | 0 | No Authority | | | | | |
| | Yes Criminal actions | | No Authority | | | | | |
| | Yes Administrative orders | | No Authority | \boxtimes | | | | |
| | X Yes Other Second notice | e of violation | | | | | | |
| H. | Do you use an electronic tool (e.g., inspection results, and enforcement jurisdiction? | The state of the s | and the second of the second o | | X Yes | ☐ No | | |
| I. | What are the 3 most common types | s of violations docu | mented during this rep | orting period? | ľ | | | |
| 1000 | SWPPP missing; 2. BMPs not implemented; 3. Sediment discharge into MS4; 4. Washout from the site | | | | | | | |
| 1500 | , . | ted; 3. Sediment di | scharge into MS4; 4. \ | Washout from | | | | |
| 1500 | , . | | | | | | | |
| . SWP J. | PP missing; 2. BMPs not implemen | s receive training or | n the construction prog | gram? Anr | the site | □ No | | |
| J. | PP missing; 2. BMPs not implemen How often do municipal employees Illicit Discharge Elimination Have you completed a map of all o | s receive training or | n the construction prog | gram? Ann | the site | No No | | |
| J. A. B. | PP missing; 2. BMPs not implemen How often do municipal employees Illicit Discharge Elimination Have you completed a map of all of system? Have you completed a map of all s | s receive training or outfalls and receiving torm drain pipes an | n the construction prog g waters of your storm d other conveyances in | gram? Ann | the site | | | |
| J. A. B. | PP missing; 2. BMPs not implemen How often do municipal employees Illicit Discharge Elimination Have you completed a map of all of system? Have you completed a map of all s sewer system? | s receive training or outfalls and receiving torm drain pipes and | n the construction prog ng waters of your storm d other conveyances in stem. 40 (see Item | gram? Ann n sewer n the storm | the site | | | |
| J. A. B. | PP missing; 2. BMPs not implemen How often do municipal employees Illicit Discharge Elimination Have you completed a map of all of system? Have you completed a map of all s sewer system? Identify the number of outfalls in y | s receive training or outfalls and receiving torm drain pipes and your storm sewer sy | n the construction program waters of your storm d other conveyances in stem. 40 (see Item ency, for screening ou | gram? Ann n sewer n the storm 10) | the site nually Yes Yes Yes | □ No | | |
| J. A. B. C. | PP missing; 2. BMPs not implemen How often do municipal employees Illicit Discharge Elimination Have you completed a map of all o system? Have you completed a map of all s sewer system? Identify the number of outfalls in y Do you have documented procedur Of the outfalls identified in 5.C, ho | s receive training or outfalls and receiving torm drain pipes and your storm sewer sy | n the construction program waters of your storm d other conveyances in stem. 40 (see Item ency, for screening ou | gram? Ann n sewer n the storm 10) | the site nually Yes Yes Yes | □ No | | |
| J. A. B. C. D. | PP missing; 2. BMPs not implemen How often do municipal employees Illicit Discharge Elimination Have you completed a map of all o system? Have you completed a map of all s sewer system? Identify the number of outfalls in y Do you have documented procedur Of the outfalls identified in 5.C, ho | s receive training or outfalls and receiving torm drain pipes and your storm sewer sy res, including frequency ow many were screen | n the construction program waters of your storm d other conveyances in stem. 40 (see Item ency, for screening outled for dry weather displayed) | gram? Ann n sewer n the storm 10) tfalls? ischarges durin | the site nually Yes Yes Yes the site | No No viing period? | | |
| J. A. B. C. D. E. | How often do municipal employees Illicit Discharge Elimination Have you completed a map of all of system? Have you completed a map of all sewer system? Identify the number of outfalls in your procedure of the outfalls identified in 5.C, how of the outfalls identified in 5.C, how | s receive training or outfalls and receiving torm drain pipes and rour storm sewer sy res, including frequency ow many were screen | n the construction program waters of your storm d other conveyances in stem. 40 (see Item ency, for screening out and for dry weather discreened for dry weather | gram? Ann n sewer n the storm 10) tfalls? ischarges durin | the site nually Yes Yes Yes at any time | No No Ting period? | | |
| J. A. B. C. D. E. 40 | How often do municipal employees Illicit Discharge Elimination Have you completed a map of all of system? Have you completed a map of all sewer system? Identify the number of outfalls in your procedure of the outfalls identified in 5.C, how obtained MS4 permit coverage? | s receive training or outfalls and receiving torm drain pipes and rour storm sewer sy res, including freque ow many were scree ow many have been see Item 10 ng outfalls for illicited immediately (se | n the construction program waters of your storm dother conveyances in stem. 40 (see Item ency, for screening our ened for dry weather discreened for dry weather discreened for dry weather discharges? Describee item 10). The 40 D | gram? Ann n sewer n the storm 10) tfalls? ischarges durin her discharges e any variation ry Weather Sc | the site nually Yes Yes Yes at any time based on s reening out | No No No ting period? since you ize/type. tfalls are | | |
| J. A. B. C. D. E. 40 F. G. Complected | How often do municipal employees Illicit Discharge Elimination Have you completed a map of all of system? Have you completed a map of all sewer system? Identify the number of outfalls in your of the outfalls identified in 5.C, how obtained MS4 permit coverage? What is your frequency for screening aints regarding spills are investigated. | s receive training or outfalls and receiving torm drain pipes and rour storm sewer sy res, including freque ow many were scree ow many have been see Item 10 ng outfalls for illicited immediately (sotypically sometime | n the construction program waters of your storm d other conveyances in stem. 40 (see Item ency, for screening our ened for dry weather discreened for dry weather discreened for dry weather discharges? Describee item 10). The 40 Discreened in November through | gram? Ann n sewer n the storm 10) tfalls? ischarges durin her discharges e any variation ry Weather Sci | the site nually Yes Yes Yes at any time based on s reening out | No No Ting period? since you ize/type. tfalls are | | |

5.

| | J. | Durin | g this reporting period, how many illicit discharges/illegal connections have you dis | scovered? see | item 10 | | | |
|-----|-------|--|--|--------------------|-----------|--|--|--|
| | K. | Of the | ose illicit discharges/illegal connections that have been discovered or reported, how | many have been | r | | | |
| | | eliminated? All Complai | | | | | | |
| | L. | How | often do municipal employees receive training on the illicit discharge program? | Annually (appro | opriate 📥 | | | |
| 6. | A. | Stormwater Management for Municipal Operations Have stormwater pollution prevention plans (or an equivalent plan) been developed for: | | | | | | |
| | All | public | parks, ball fields, other recreational facilities and other open spaces | Yes | ⊠ No | | | |
| | All | munic | ipal construction activities, including those disturbing less than 1 acre | Yes | ⊠ No | | | |
| | All | munic | ipal turf grass/landscape management activities | X Yes | No | | | |
| | All | munic | ipal vehicle fueling, operation and maintenance activities | X Yes | ■ No | | | |
| | All | munic | ipal maintenance yards | X Yes | No No | | | |
| | All | munic | ipal waste handling and disposal areas | X Yes | No No | | | |
| | Ot. | ner | All COA golf courses and warehouses have SWPPPs for their operations. Genera | al Parks and Ope | n Spaces | | | |
| | | | do not. | | | | | |
| | В. | Are st | ormwater inspections conducted at these facilities? Xes No | | | | | |
| | C. | If Yes | , at what frequency are inspections conducted? | | | | | |
| | D. | | ctivities for which operating procedures or management practices specific to stormy leveloped (e.g., road repairs, catch basin cleaning). | water managemei | nt have | | | |
| C | onstr | uction | activities, detention pond cleaning, storm inlet and drain cleaning, fueling opera | ations, storage o | f | | | |
| h | azarc | lous ar | nd non-hazardous materials, general good housekeeping operations, landfill ope | rations | | | | |
| | E. | Do yo inspec | u prioritize certain municipal activities and/or facilities for more frequent tion? | X Yes | No No | | | |
| | F. | If Yes | , which activities and/or facilities receive most frequent inspections? | | | | | |
| | | | it inspections occur at facilities that require a Multi Sector General Permit (Solid V g inspections are performed at general maintenance facilities quarterly. Monthly | | | | | |
| | G. | | municipal employees and contractors overseeing planning and implementation of water-related activities receive comprehensive training on stormwater management | ? Yes | ■ No | | | |
| | H. | If yes, | do you also provide regular updates and refreshers? | X Yes | No No | | | |
| | I, | If so, l | now frequently and/or under what circumstances? | | | | | |
| 100 | | | on-line. Annual refreshers are required for existing staff and new hires. On the stions, as needed. | spot training also | occurs | | | |
| 7. | A. | | term (Post-Construction) Stormwater Measures but have an ordinance or other regulatory mechanism to require: | | | | | |
| | Sit | e plan i | reviews for stormwater/water quality of all new and re-development projects? | × Yes | ☐ No | | | |
| | Lo | ng-tern | operation and maintenance of stormwater management controls? | Yes | ⊠ No | | | |
| | Re | trofittir | ng to incorporate long-term stormwater management controls? | Yes | ⊠ No | | | |
| | В. | If you | have retrofit requirements, what are the circumstances/criteria? | | | | | |
| N | one r | equire | d at this time. | | | | | |
| E | С | | are your criteria for determining which new/re-development stormwater plans you ets, projects disturbing greater than one acre, etc.)? | will review (e.g. | , all | | | |
| | | | nance the following projects are reviewed: 1. more than 500 cu yard earthwork o Buildings 1000 sq ft or more; 3. Paving 10,000 sq ft or more; 4. any fill placed in a | | | | | |

| D. | Do you require water quality or quantity design standards or performance standards, either directly or by reference to a state or other standard, be met for new development and re-development? | Yes No |
|-----|--|------------------|
| E. | Do these performance or design standards require that pre-development hydrology be met for: | |
| Flo | ow volumes | Yes No |
| Pea | ak discharge rates | Yes No |
| Dis | scharge frequency | Yes No |
| Flo | ow duration | Yes No |
| F. | Please provide the URL/reference where all post-construction stormwater management standar | ds can be found. |
| htt | tps://codelibrary.amlegal.com/codes/albuquerque/latest/overview | |
| G. | How many development and redevelopment project plans were reviewed during the reporting p | period to assess |
| | impacts to water quality and receiving stream protection? | |
| Η. | How many of the plans identified in 7.G were approved? | |
| I. | How many privately owned permanent stormwater management practices/facilities were inspec | cted during the |
| | reporting period? 145 | |
| J. | How many of the practices/facilities identified in I were found to have inadequate maintenance | ? 10 |
| K. | How long do you give operators to remedy any operation and maintenance deficiencies identified | ed during |
| | inspections? 30 days | |
| L. | Do you have authority to take enforcement action for failure to properly operate and maintain stormwater practices/facilities? | Yes No |
| M. | How many formal enforcement actions (i.e., more than a verbal or written warning) were taken | for failure to |
| | adequately operate and/or maintain stormwater management practices? | |
| N. | Do you use an electronic tool (e.g., GIS, database, spreadsheet) to track post-construction BMPs, inspections and maintenance? | Yes No |
| O. | Do all municipal departments and/or staff (as relevant) have access to this tracking system? | Yes No |
| P. | How often do municipal employees receive training on the post-construction program? | ning - Month |
| A. | Program Resources What was the annual expenditure to implement MS4 permit requirements this reporting period | ? \$8.1 Million |
| 11. | what was the difficult experience to implement tyle i permit requirements this reperting period | 36.1 WIIIIOTT |
| B. | What is next year's budget for implementing the requirements of your MS4 NPDES permit? | \$6.5 Million |
| C. | This year what is/are your source(s) of funding for the stormwater program, and annual revenue percentage) derived from each? | 30 |
| | Source: G.O. Bonds (NPDES, Water Quality Compliance) Amount \$ 0.65 Mi | OR % |
| | Source: General Funds (Arroyo and Street Maintenance) Amount \$ 3.3 Milli | OR % |
| | Source: Customer Billing (Household Hazardous Waste, Amount 3.5 Mill | OR % |
| D | How many ETEs does your municipality devote to the stormwater program (specifically for in | unlamenting the |

D. How many FTEs does your municipality devote to the stormwater program (specifically for implementing the stormwater program; not municipal employees with other primary responsibilities)?

8.

| | E. Do you share programmer Entity | ram implementation res Activity/Task/Res | ā | other entities? Yes Your Oversight/Accountability | No Mechanism |
|--|--|--|--|---|--|
| | AMAFCA, SCAF | Sampling and Monitor | ing Wet Weath | Memo of Understanding | |
| | AMAFCA, SCAF | Education and Outread | :h | Memo of Understanding | |
| | AMAFCA, SCAF€ | General Watershed Bas | sed Permit Imp | Memo of Understanding | |
| 9. | have you been tracking practices or tasks, but le indices, measures of eff | you use to evaluate the them, and at what frequency arge-scale or long-term fective impervious cove | uency? These are not metrics for the overa or in the watershed, in Began Tracking | of your stormwater management promeasurable goals for individual man ll program, such as macroinvertebrat dicators of in-stream hydrologic stab | agement e community ility, etc. Number of |
| | Indica Example: E. coli | tor | (year) 2003 | Frequency Weekly April–September | Locations 20 |
| | 311 Complaint Systen | n Responses to IDDE | 2003 | As reported; number varies pe | Varies |
| | Student and General | Public Education a | 2006 | Reporting annually; events he | Varies |
| | Dry Weather Screenin | g | 2003 | Annually | 40 locations |
| | Good Housekeeping I | Inspections | 2012 | Quarterly to Monthly (if neede | 41 locations |
| | City Employees Takin | g SWPPP or SPCC t | 2020 | Annually | 554 employees |
| se | summaries can be ps://www.cabq.gov/m parate-storm-sewer-sys Additional Inforn | attached electronically, unicipaldevelopment/ stem-ms4-permit. | or provide the URL t | he duration of your stormwater prog o where they may be found on the W ineering/storm-water-managemen | t/municipal- |
| I.C, | | | | 4 program, including information rece, please provide the question number | - / |
| I ce und qua on i dire bes are fine | ler my direction or sulfified personnel prop my inquiry of the per ectly responsible for t of my knowledge a significant penalties and imprisonment f | of law that this docume pervision in accordance or gathered and everson or persons who gathering the informed belief, true, accur for submitting false for knowing violation | ance with a system raluated the inform manage the system ation, the informate rate, and complete information, incluss. | designed to assure that ation submitted. Based | Yes No |
| | | al executive or ranking of | | a municipai, State, Federal, or oth | er public |
| Sig | gnature | | | | |
| | | | Name o | of Certifying Official, Title | ate (mm/dd/yyyy) |

CITY OF ALBUQUERQUE Annual Report for Fiscal Year 2022 (FY22) July 1, 2021 to June 30, 2022

NPDES PERMIT NMR04A000, Effective Date December 22, 2014 eNOI Application Date June 21, 2015

ITEM 10 Additional Information

I.C. Special Conditions

- 1. Compliance with Water Quality Standards
- d. Dissolved Oxygen (DO): The Arroyo Metropolitan Flood Control Authority (AMAFCA) has installed aeration devices in areas prone to stagnation and monitors the DO in these areas. Results collected by the Compliance Monitoring Cooperative (CMC) in the Rio Grande during the permit term and in this period of administrative continuance indicate that stormwater runoff does not contribute to low DO conditions.
- e. Polychlorinated Biphenyls (PCBs): The City of Albuquerque (COA) began a sediment assessment study in FY16 which was completed in FY17 with a final letter report submitted in FY18 on July 10, 2017. Under this study, soil samples were taken from the 5 outfall locations monitored under the former Phase 1 permit NMS000101 as well as from up and down stream locations along the Rio Grande. These samples were analyzed for PCBs using the Aroclor method. Detection of PCBs at any of these locations resulted in further sampling and analysis of upstream areas. Twelve locations were ultimately screened for both PCBs and select metals in the Phase II Assessment based upon the results of the original study. The Synthetic Precipitation Leaching Procedure (SPLP) was used to analyze the following metals: aluminum, cadmium, chromium, lead, nickel, and zinc. No PCBs were found in any of the sediment samples at concentrations above the detection limits that ranged from 0.019 to 0.2 milligrams per kilogram (mg/kg) for the six aroclors analyzed. Both studies are available in the FY17 Annual Report under Attachment 1. The Phase II Assessment was also included in the FY18 Annual Report under Attachment 1. As discussed in the Progress Evaluation Report for the Sediment Pollutant Load Reduction Strategy, submitted last year in FY19 under Attachment 1, recent investigations did not identify any sources of PCBs in the Albuquerque metropolitan area that represent a continuing impact to the waters of the Rio Grande.
- f. Temperature: AMAFCA continues to monitor temperature in the Rio Grande and at the North Diversion Channel through the deployment of sondes. Analysis of stormwater flows for temperature under the former Phase 1 permit indicates no contribution to temperature exceedances in the Middle Rio Grande and continues to indicate no contribution to any potential temperature exceedances. Results collected by the Compliance Monitoring Cooperative (CMC) during the permit term and in this period of

administrative continuance indicate that stormwater runoff does not contribute to low temperature conditions.

2. Discharges to Impaired Waters with and without approved TMDLs

b(i)(c)B: The Monitoring Cooperative successfully implemented the sampling plan approved in the summer of 2016 and over the course of the permit term, submitted the results of 7 storm events collected from 2 locations in the Rio Grande at the northern or upstream (Angostura Diversion Dam) and at the southern or downstream (Isleta Diversion Dam) boundaries of the watershed as required by the Watershed Based Permit (WBP). Samples from 4 events during the wet season and 3 events during the dry season were collected meeting the WBP sampling criteria of 7 samples with 3 events from the wet season and 2 events from the dry season. Results from the WBP required sampling events were provided in the FY17, FY18, and FY19 Annual reports as well as submitted electronically into EPA's NetDMR system.

The WBP expired on December 19, 2019 and has been administratively continued. A letter submitted to the EPA by the Middle Rio Grande Technical Advisory Group discusses its members' intent to continue operations under coverage of the administratively extended permit (see Attachment 1 of the FY20 Annual Report). Although no additional monitoring is required during the period of administrative continuance, agencies participating in the Monitoring Cooperative have continued to fund sampling efforts. These results are provided in Attachment 1 of each year's Annual Report.

Although an in-stream sample for both a wet season and a dry season storm event was submitted for analysis in FY22, only the wet season sample occurred during a qualifying storm event. Due to drought, no qualifying storm events occurred during the dry season in FY22. The results from the qualifying event during the wet season and the non-qualifying event are provided in 2 memos: Wet Season and Dry Season Wet Weather Monitoring Results included as Attachment 1 in this year's FY22 report. Impairments to the Middle Rio Grande include E. coli bacteria, PCBs, Gross Alpha, Dissolved Oxygen and Temperature. In addition to the impairments, a list of other potential contaminants that were found in stormwater samples collected at select outfall locations in years prior to implementation of the WBP are also monitored. Of these constituents, only E. coli bacteria have an approved Total Maximum Daily Load (TMDL), a permit compliance item.

Results indicate that E. coli water quality standards for Pueblo of Isleta primary contact was exceeded in the wet season sample in all segments of the Rio Grande. In addition, the E. coli level in the southern most segment exceeded water quality standards specified in New Mexico's Administrative Code (NMAC 20.4). Finally, and more importantly, waste load allocations (WLA) for both segments were potentially exceeded. Exceedance of the WLA is noteworthy because the permit requires compliance with the TMDL rather than tribal and state water quality standards.

The COA continues its work to reduce E. coli loads through the pet waste education and outreach program. Dog waste had been estimated to contribute about 22% of the fecal coliform bacteria to the Middle Rio Grande watershed in a microbial source tracking (MST) study completed in 2004. A new MST that uses quantitative polymerase chain

reaction (qPCR) analysis and fecal indicator bacteria (FIB) by E. coli enumeration was scoped and commissioned by the COA in FY17 at cost of about \$250,000. The Quality Assurance Program Plan (QAPP) and sampling and analysis plan (SAP) were prepared in FY17 and sample collection and analysis were completed in FY19. The results of this study indicated the presence of moderate canine markers in channels, drains, and arroyos in the northeast and northwest parts of the watershed. Weak human markers were also indicated near some of the bridges as well as downstream of the sanitary reclamation facility. A copy of the finalized report was provided as Attachment 2 Completion Report for Microbial Source Tracking Program in the FY20 Annual Report.

Finally, the Middle Rio Grande Storm Water Quality Team (MRGSWQT), of which the COA is a member, funded additional years of dry weather E. coli data collection by college students as part of the Bosque Ecosystem Monitoring Program (BEMP) to better understand the baseline concentration of E.coli prior to storm events. The MRGSWQT also funded a master student's thesis that studied the variability of E. coli concentrations in a water column compared to the juxtaposed sediment. The results of this study, completed in FY19, indicate that E. coli are harbored in riverbed sediments, and that trends in sediment concentrations and corresponding loadings of E. coli in river water are irregular. The net direction of E. coli transfer (river water to sediment or sediment to water) is unknown.

- b(i)(e)A,C,D,E: The COA continues to work with the Albuquerque Bernalillo County Water Utility Authority (WUA) to make improvements to its pump and lift stations. The WUA provides the COA and AMAFCA with copies of Discharge Monitoring Reports (DMRs) each month that report sanitary overflows, should any have occurred, and corresponding disinfection and clean-up efforts. One illegal cross connection was reported during FY22.
- b(i)(e)C: The Environmental Health Department continues to work with restaurants to reduce waste sources of bacteria from grease traps.
- b(i)(e)D. The Storm Drainage Section continues to work with BioPark staff and perform quarterly Good Housekeeping inspections in an effort to ensure that bacteria from animal waste are not discharged to the MS4.
- b(i)(e)E. The COA contributes funding to and participates as a founding member of the Storm Water Quality Team. The Team continues education and outreach efforts to educate residents on the effects of bacteria associated with improper pet waste disposal. The COA also works with both the Team and the WUA to educate the public with regards to proper oil and grease disposal and the potential for sanitary overflows due to clogged plumbing.
- b(iii)(c): The COA continues to work with Bernalillo County (BernCo) and the NM Department of Transportation (NMDOT) on a joint sampling program in the Tijeras Arroyo. A total maximum daily load for nutrients was approved by the Water Quality Control Commission on September 12, 2017. As a result, the COA has begun to develop Best Management Practices (BMPs) to minimize impacts, if any, due to potential contributions from the urbanized area that makes up about 1% of the watershed.

In addition, during the late spring of FY18, the COA began work on a joint funding agreement (JFA) with the Ciudad Soil Water and Conservation District for the preparation

of a Watershed Based Plan (WBP) for the Upper Tijeras Arroyo. The JFA was signed in September 2018 and a request for proposals to prepare the WBP was issued in early 2019. The winning proposal was selected in February 2019 and was provided in the FY19 Annual Report under Attachment 5. A draft WBP was submitted to the New Mexico Environment Department Surface Water Quality Bureau for comment in July 2021 and was finalized in late December 2021.

The COA Open Space Division (OSD) created a Tijeras Arroyo Bio-Zone Resource Management Plan for a 3.7 mile stretch of the arroyo along Tijeras Creek in 2014 with a goal of conserving native vegetation and wildlife habitat and restoring vegetation and wildlife where feasible. The COA is actively working on purchasing property in the arroyo for this purpose. In addition, the OSD and partners (Carnuel Land Grand, Village of Tijeras, Bernalillo County Open Space) are preparing the Tijeras Creek Cultural Corridor Plan that will help the COA and its partners identify cultural and biological themes and assist in planning natural resource objectives.

3. Endangered Species Act (ESA) Requirements

- a(i) AMAFCA has filled in the low-lying area between the discharge point of the North Diversion Channel (NDC) and the Rio Grande. This area was prone to stagnation and had the potential to develop low DO which could be flushed into the Rio Grande during storm events. AMAFCA continues to monitor this area for DO. The COA continues to install water quality features, such as trash racks and water quality manholes in efforts to collect and reduce trash and debris that contribute to the DO problem.
- a(ii) AMAFCA has submitted a revised strategy for reduction of pollutants contributed by the embayment. As stated above, the embayment has been filled in. Annual Incident Take Reports are submitted by AMAFCA to the EPA and Fish and Wildlife Service (FWS).
- b(i) See also item 1.e. The COA performed two Sediment Assessment Studies that included an analysis of PCBs and SPLP metals in soils. The first, finalized in October 2016 assessed sediments from 5 major outfall locations. The second, completed in July 2017, further examined potential upstream sources, if any. No PCBs were reported. Metals in general, with the exceptions of Aluminum (Al) and Zinc (Zn) were present at concentrations below detection limits. Detected Al concentrations ranged from 1.9 to 11 mg/L. Detected Zn concentrations ranged from 0.022 to 0.048 mg/L. The Phase II assessment was provided in the FY18 Annual Report under Attachment 1. The Phase I Assessment was included in the FY17 Annual Report under Attachment 1.
- b(iv) A Progress Evaluation Report for the Sediment Pollutant Load Reduction Strategy was submitted in the FY19 Annual Report under Attachment 1. This report was prepared using the results of several previous studies submitted by the COA including data from the Sediment Assessments as well as the USGS Summary of Urban Stormwater Quality in Albuquerque, 2003-2012. Additional data, provided by Bernalillo County, Southern Sandoval County Arroyo Flood Control Authority (SSAFCA) and AMAFCA, was used to provide baseline sediment loading and relative potential for contamination by these sediments from urban activities for areas draining to the Rio Grande. The results of this study pinpointed areas of highest sediment discharge into the Rio Grande during the permit period, which included the North Diversion Channel and

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Tijeras Arroyo. Although many BMPs, such as ponds, trash racks, and other water quality structures are already in place to reduce pollutants and sediment loads to these drainages, additional projects to improve water quality will continue to be implemented.

I.D. Stormwater Management Program (SWMP)

A copy of the updated SWMP adapted for compliance under NMR04A000 was included with the first full Annual Report on December 1, 2016. A subsequent update was prepared and submitted in FY19, year 4 of the permit cycle, per requirements (page 7 of Part III, Section B). A copy of the SWMP is available on the COA's DMD MS4 webpage: http://www.cabq.gov/municipaldevelopment/documents/swmp-11-24-2019-submitted.pdf. Copies are also available on compact disks that can be mailed to regulators, stakeholders, and others upon request.

- 5b. Post-Construction Stormwater Management in New Development and Redevelopment
- (i) and 7.E (Annual Report Format) The COA's Planning Hydrology Department reviews plans for new development and redevelopment projects that address storm water runoff when one acre or more are disturbed. The allowable discharge is determined on a site-by-site basis and is determined by the COA's and AMAFCA's Drainage Management Plans that freely discharge in some locations and 0.1 cubic foot per second per acre (cfs/ac) in others based upon downstream capacity, not on historic flows.
- (ii)(a) Twenty structural stormwater quality features have been installed since the WBP effective date of December 22, 2014. A listing, map, and description of all of the COA's water quality features were included in Attachment 3 of the FY20 report. Three new features were installed in FY22, including a new pond liner at a COA maintenance facility, a new pump station and pond, including a bar screen, and a retrofit of a trash rack at an existing pond. A location map, photographs, and description of these features is included in Attachment 2, Stormwater Quality Features. Information regarding the COA's ponds, dams, and cattle guards, which also serve to capture trash, debris, and sediment is available upon request.
- (ii)(b) An ordinance increasing the volume of capture of the 80th and 90th percentile storm events and supplying provisions for inspection of post construction stormwater controls and enforcement to ensure compliance was introduced to City Council on January 3, 2018, passed on September 17, 2018, and sent to the Mayor for signature on September 25, 2018. Click on the following link for an electronic copy of the ordinance https://codelibrary.amlegal.com/codes/albuquerque/latest/albuquerque_nm/0-0-0-19774#JD_Chapter14Article5Part2.
- (ii)(c) Prior to private development construction, Planning Hydrology staff review and approve BMPs designed to capture the 80th and 90th percentile storm events. Planning Hydrology building construction and stormwater quality inspection staff then oversee compliance with federal and local permits during the Construction Phase. Once constructed and permitted, information regarding these features is provided to the Storm Drainage Section for follow up during the Post-Construction phase. Subsequently, Storm Drainage Section staff investigate complaints related to these features and perform inspections of them every 5 years to ensure proper maintenance. This year 759 reviews of newly constructed "first flush" water quality features were conducted by Planning

Hydrology personnel and only 1 inspection of features installed 5 years ago was conducted by Storm Drainage inspectors due to COVID-19 restrictions. Inspections are scheduled to resume in FY23. The 5-year Post Construction inspections are required by the COA's Drainage Ordinance discussed above in (ii)(b).

- (vi) Approximately 143 acres of impervious area (IA) was added to the Albuquerque Metropolitan area in FY22. See Attachment 3, Impervious Area Added for a listing. Of this area, roughly 95% drains to first flush ponds and regional features which collect dirt, debris, and trash. Therefore, the directly connected impervious area (DCIA) added in FY22 was 143 acres minus 136 acres for a total of 7 acres. The methodology for estimating impervious area is based on land use codes and was sent to EPA in the 2013 Annual Report under the former Phase 1 permit NMS000101.
- (vii) The COA's Master Drainage Plan provides a ranking of MS4-owned properties for flood control projects including retrofits. In addition to those identified in the Master Drainage Plan, the COA installs retrofits during construction activities on an as-needed basis or as funding becomes available.
- 5c. Pollution Prevention/Good Housekeeping for Municipal/Co-permittee Operations
- (i)(a) Storm Drainage Inspection staff work with COA facility maintenance personnel to ensure training regarding permit compliance requirements, site-specific best management practices, and spill response procedures is provided. This training is conducted annually and provided to all staff via online presentations. In addition, inspections of maintenance facilities are performed quarterly at a minimum. Inspection staff conducted 156 Good Housekeeping inspections at COA facilities in FY22.

5d. Industrial and High Risk Runoff

(vi) In FY22, COA in-house inspectors did not perform any industrial and high-risk inspections of private facilities requiring a Multi Sector General Permit (MSGP) due to COVID-19 restrictions. The inspections are anticipated to resume in FY23. 17 COA facilities that are permitted under the MSGP were inspected during this time. Quarterly inspections were performed by storm drainage inspectors at 16 of the facilities while the Cerro Colorado Landfill was inspected monthly from July 2021 through January 2022. Since January 2022, storm drainage inspectors have been performing quarterly inspections at the landfill while solid waste staff have been performing the monthly inspections.

5e. Illicit Discharges and Improper Disposal

- (i)e, ii The COA implemented a 311 complaint system to report illicit discharges in the mid-2000s. See Attachment 4 for a map showing the locations of discharges and a listing of the types of discharges via this system in FY22. Individual reports, including more detailed descriptions, photos, and resolution are available upon request.
- (iv)A,C The Storm Drainage Section of the Department of Municipal Development (DMD) coordinated with the Solid Waste Department (SWD) to host one Household Hazardous Waste (HHW) recycling event in FY22. 585 residents participated in the event, held on November 13, 2021, during which approximately 58,753 pounds (lbs) of HHW and non-regulated solid waste were collected or just over 100 lbs/customer.

In addition, 12,331 participants disposed of almost 346,000 lbs of HHW throughout FY22 at the HHW collection center run by a contractor on behalf of the COA SWD. Of this amount, 270,500 lbs were recycled and diverted from the landfill. An additional 26,016 lbs of materials were submitted by 2132 individuals for reuse at the Material Reuse Center.

(vii) In addition to using the 311 complaint system to pinpoint illicit discharges, the COA implemented an Illicit Discharge Detection and Elimination (IDDE) inspection program in FY16 to mitigate the influence of discharges with lower risk but higher likelihood of occurrence. At the onset of the program, a local environmental consulting firm was hired to supply staff to perform these inspections. These inspection results were summarized in a report submitted in the FY19 Annual Report as Attachment 9. The COA hired an inspector supervisor and 3 inspectors as permanent employees in FY17 to assist in IDDE inspection and data tracking efforts. In late FY18, COA inspectors took over the IDDE inspection program. 75 IDDE complaints were investigated by COA engineers and inspectors in FY22. The COA will resume inspection of businesses that do not require a MSGP but have a high potential for illicit discharges in FY23.

5f. Control of Floatables Discharges

(iii). Street Sweeping crews picked up almost 6,900 cubic yards (5,310 tons) of dirt and debris from 41,570 miles of COA Right of Way in FY22. Dirt comprises about 65% of the material picked up by street sweepers with debris making up the remaining 35%. Of the debris, roughly 70% is vegetation. The remaining waste is comprised of plastics (bottles, bags, containers/lids) at 15%, paper and cardboard at 10%, and metal at 5%.

In addition, the COA's Arroyo Maintenance Section cleaned over 3,700 cubic yards of dirt, trash, debris, and vegetation from the storm drain system during FY22.

III.A. Monitoring and Assessment

- 1. Wet Weather Reporting: Permit requirements called for the submission of 7 samples by the end of the permit term. To cooperatively meet this requirement, the CMC submitted a sampling and analysis plan to EPA Region 6 for approval in June 2016. The CMC collected compliance samples through the rest of the permit term and in FY19 collected the one remaining sample required by the permit. The permit expired on December 19, 2019 and no further sample collection efforts are required. However, as a good faith effort, the COA and other CMC members have continued to fund sampling efforts during this period of administrative continuance. As discussed on page 2 under "Discharges to Impaired Waters", one in-stream sample was collected during the wet season in FY22. The results are provided in Attachment 1 of this report. Results indicate that E. coli TMDLs were exceeded in both the northern and southern segments of the Middle Rio Grande during this wet season sampling event.
- 2. Dry Weather Reporting: Dry weather screening is performed at 40 locations (24 direct discharge points to the Rio Grande and an additional 16 locations to assess subwatersheds). See Attachment 5 for results.
- 3. Floatables Reporting: See item 5f above. In addition, an estimated 45 cubic yards of floatables were removed from the Barelas Pump Station in FY22, the COA's selected floatables monitoring location. AMAFCA provides the information on floatables monitoring in the NDC.

4a. Industrial and High Risk Reporting: The COA's landfill is located outside of the MS4 and drains to the Rio Puerco rather than the Rio Grande. Nonetheless, the landfill is permitted under the federal MSGP.

4.b COA's transfer stations, solid waste station at Pino Yards, transit stations, warehouse and streets facilities, all located within the MS4, are classed as sector P. Because of sporadic localized events that often occur during evening, weekends and other non-work hours, it is often difficult to obtain results. Quarterly visual inspections are completed and samples are taken when possible. Copies of inspections are available upon request. Per changes in the 2021 MSGP, which went into effect on March 1, 2021, monitoring for appropriate constituents took place at all permitted facilities in FY22 and were reported in the NetDMR system. Copies of the DMRs are available upon request.

ADDITIONAL INFORMATION TO SUPPLEMENT REPORT FORM

Item 3. Public Participation and Education

C. The COA Storm Drainage staff participated in and the Storm Drainage Section contributed \$15,000 in dues to the MRGSWQT in FY22 Outreach activities performed by the 10 agencies that comprise the MRGSWQT are provided in the Outcomes Report found on their webpage at https://keeptheriogrand.org/. Additional COA public participation and outreach activities that pertain to watershed enhancement and improvement of stormwater quality, such as tree plantings, trash clean up, or educational walking tours conducted in the Bosque or Sandia Foothills are described below.

The COA's Open Space Division (OSD) with Parks and Recreation recorded 697 volunteers assisting with the tree and pole planting program (about 350 willow whips and 640 cottonwoods) in the bosque.

The OSD clean-up events along the trails and Rio Grande resumed this year after 2 years of limited activity due to the COVID-19 pandemic. Outreach has occurred along the trails by staff encouraging visitors to keep the areas clean and free from trash. In addition, 452 volunteers removed 35 cubic yards (cy) of trash, 31 bags of recyclables, 110 gallons of glass, and 150 pounds of dog waste from 6 trailheads during spring clean-up and National Trails Day. During the 2022 River Clean-up along the banks of the Rio Grande, 102 participants filled a dump trailer and 4 pick-up trucks with trash and large items including tires, shopping carts, and a kiddie wading pool.

The SWD Keep Albuquerque Beautiful campaign sponsors annual clean up events in each of the four quadrants of the metropolitan area during the month of April. Neighborhood groups and individuals collect trash and drop it off at select locations to be recorded. In FY22, 732 residents participated in the event and collected almost 95,000 lbs (47 tons) of trash.

Environmental Health Department (EHD) staff volunteer to conduct hikes in the Bosque and Sandia Foothills to promote environmental awareness. During these hikes, the importance of stormwater quality and its effect on the habitat and its interconnection and value to the freshwater supply is discussed. 206 residents participated in the hikes in FY22.

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Item 5. Illicit Discharges

C. There are 24 direct discharge points to the Rio Grande. Assessment of industrial and commercial development within subwatersheds of the Albuquerque Metropolitan area has led to the selection of 16 additional dry weather screening locations in channels and arroyos. In total, 40 locations are monitored per MS4 permit requirements for the COA's dry weather screening program. See Attachment 4, Dry Weather Screening for the results.

J. During the reporting period from July 1, 2021 through June 30, 2022, 79 improper discharge related complaints were reported to the 311 system and investigated by a City storm drainage engineer or inspector. See Attachment 5 for a map indicating location and type of discharge as well as additional details on the spill response. One cross connection between the sanitary and storm sewer system was reported and corrected in FY22.

Item 8. Program Resources

D. If fully staffed, 26 full time employees that perform work related to the COA's MS4 include: 16 Arroyo/Storm Drainage Maintenance personnel, 8 Storm Drainage Design/NPDES personnel (consisting of a Section Manager, 3 engineers, 1 supervisor inspector, and 3 inspectors), and 1 Stormwater Quality Engineer and 1 Construction Inspector in the Planning Hydrology Department. During this period of COVID-19, the COA has been dealing with staff shortages and is attempting to fill vacancies.

In addition to FTE's employed by the COA, the Storm Drainage Section budgets and spends approximately \$255,000 per year on consultants hired solely to perform NPDES permit compliance tasks. This is the equivalent of 2.5 FTE's. The Clean City Solid Waste program also employs 70 FTEs and uses 80 contractor positions to collect and dispose of trash that would otherwise make its way into the COA's MS4. Additionally, 20 employees in Street Maintenance perform street sweeping in support of dirt and debris removal efforts.

Finally, Parks and Open Space personnel conduct restoration projects, host citizen clean up days, and perform education and outreach related to stormwater quality. Also, Parks design project managers continue to work on the installation of green stormwater infrastructure in our COA parks, such as native plantings, permeable paving, and bioswales.

Attachment 1 Wet Weather Monitoring Results Waste Load Allocation Results

Compliance Monitoring Cooperative (CMC)

E. coli Loading Calculation Compared to Waste Load Allocation (WLA) FY 2022 - Wet Season Wet Weather Sampling

Date: 7/1/2022

Storm Event Date: 9/1/2021 - 9/2/2021

Table 1

Stormwater Sample Analysis Results for F. coli:

| Monitoring Location | E. coli Concentration (CFU/100 mL) ³ | Date & Time of Sample | Date & Time Sample Delivered to HEAL |
|-----------------------|---|-----------------------|---|
| Rio Grande North | 183 | 9/1/2021 10:05 AM | 9/1/2021 4:10 PM |
| Rio Grande at Alameda | 20 | 9/1/2021 11:25 AM | 9/1/2021 4:10 PM |
| Rio Grande at Alameda | 554 | 9/2/2021 10:30 AM | 9/2/2021 12:17 AM |
| Rio Grande South | 4,884 | 9/2/2021 9:20 AM | 9/2/2021 12:17 AM |
| Notes: | | | |

1. Hall Environmental Analysis Laboratory (HEAL) lab report for Rio Grande North & Alameda on 9/1/2021: Order number 2109083

2. HEAL lab report for Rio Grande South & Alameda on 9/2/2021: Order number 2109132

3. HEAL lab method: SM 9223B Fecal Indicator. Note - lab method uses units of MPN/100 mL, WLA calculations use CFU/100 mL, for this analysis it was assumed that the two units are equivalent based on Feb. 26, 2014 NMED Memo "Triennial Review - Most probable number (MPN)/colony forming units (CFU) enumeration methods and probable standards reporting revision" and

discussions with NMED, Feb. 2017.

Table 2 **Rio Grande Flow:**

| Monitoring Location | toring Location USGS Gage & Location | | Daily Mean Flow (cfs) 9/2/2021 | Calculated Average Flow (cfs) from 9/1/2021 to 9/2/2021 | Maximum Flow Used for this Analysis (cfs) |
|---------------------|---|-----|-----------------------------------|--|---|
| Rio Grande North | 08329928 - Rio Grande near Alameda | 153 | 116 | 146 | 153 |
| Rio Grande South | 0833000 - Rio Grande at Albuquerque, NM (Central) | 80 | 148 | 165 | 165 |

1. See '2021-22 USGS Daily Mean Discharge' worksheet for data obtained from USGS website on 7/13/2022. 2. Since this storm spans 2 days - BHI also checked mean flow by calculating mean flow from 9/1/2021 to 9/2/2021.

Table 3

Determination of Storm Event Flow Conditions - As Defined in the WSB MS4 Permit and NMED TMDL Report:

| | | Flow | Conditions (from WSB I | MS4 Permit Appendix B | 3) & NMED 2010 TMDL | Report |
|----------------|--|--------------|------------------------|-----------------------|---------------------|-------------------------------|
| Stream Segment | Stream Name / Related USGS Gage | High | Moist | Mid | Dry | Low |
| Stream Segment | Stream Name / Related 0303 dage | (>3,670 cfs) | (922-3,670 cfs) | (647-922 cfs) | (359-647 cfs) | (0-359 cfs) |
| | Alameda to Angostura | | | | | C. 5 . 5 |
| 2105.1_00 | Non-Pueblo Alameda Bridge to Angostura Diversion / | | | | | Storm Event Flow Condition |
| | 08329928 - Rio Grande near Alameda | | | | | Condition |
| | | High | Moist | Mid | Dry | Low |
| | | (>3,360 cfs) | (929-3,360 cfs) | (664-929 cfs) | (319-664 cfs) | (0-319 cfs) |
| | Isleta to Alameda | | | | | |
| 2105_50 | Isleta Pueblo Boundary to Alameda Street Bridge / | | | | | Storm Event Flow |
| _ | 0833000 - Rio Grande at Albuquerque, NM (Central) | | | | | Condition |
| | | High | Moist | Mid | Dry | Low |

Notes:

1. Flow ranges for flow conditions are not listed in Appendix B of WSB MS4 Permit, the flow ranges are from NMED, Sarah Holcomb, Nov. 2016 e-mail (see "WLAs From NMED" worksheet) and 2/1/17 NMED meeting, which are from the US EPA Approved, Total Maximum Daily Load (TMDL) for the Middle Rio Grande Watershed, June 30, 2010, Figures 4.3 and 4.4.

Table 4

| Monitoring Location | E. coli Concentration (CFU/100 mL) | Daily Mean Flow (cfs) | E. coli Loading (CFU/day) |
|---|--|-----------------------|------------------------------|
| Rio Grande North | 183 | 153 | 6.85E+11 |
| Rio Grande at Alameda | 554 | 153 | 2.07E+12 |
| elta in E. coli Loading Between North and Alameda Locations - This is the E. coli Loading for the Northern Segment | | | 1.39E+12 |
| Rio Grande South | 4,884 | 165 | 1.97E+13 |
| Delta in E. coli Loading Between Alameda and South Locations - This is the E. coli Loading for the Southern Segment | | | 1.76E+13 |

* If loading is negative, the delta will default to zero.

* If loading is negative, the delta will default to zero.

Calculated using the sample result obtained from The Rio Grande at Alameda (division point between Rio Grande North and South segments), This is different than the

regular CMC calculation, since the mid-point E. coli sample is not a part of the CMC Monitoring Plan.

Calculated using the sample results obtained

between Rio Grande North and South

from the Rio Grande at Alameda (division point

segments), This is different than the regular CMC

calculation, since the mid-point E. coli sample is not a part of the original CMC Monitoring Plan.

1. Used maximum flow in Table 2 for the Daily Mean Flow in the loading calculation. E. coli loading instream looked at on a daily basis by NMED and EPA.

2. Used Rio Grande near Alameda gage for the flow rate at Alameda. 3. Used the higher E. coli value for the Rio Grande at Alameda samples.

E. Coli Loading Calculation:

E. Coli Concentration $\left(\frac{CFU}{100mL}\right) \times 28,316.85 \left(\frac{mL}{ft^3}\right) \times Mean Daily Flow \left(\frac{ft^3}{sec}\right) \times 3,600 \left(\frac{sec}{hr}\right) \times 24 \left(\frac{hr}{day}\right) = E. coli Loading \left(\frac{CFU}{day}\right)$

estimated CMC MS4 E. coli loading so that a comparison can be made to the MS4 Waste Load Allocations (WLAs).

Not all E. coli sampled in the Rio Grande is attributable to MS4 activities. This storm event E. coli loading must be reduced to only represent the

The NMED presented a Jurisdictional Area Approach in Appendix F of the US EPA Approved, Total Maximum Daily Load (TMDL) for the Middle Rio Grande Watershed, June 30, 2010. This approach in 2010 has the MS4s divided into Phase I and Phase II permittees, which no longer applies. NMED provided an e-mail that applies to the current CMC MS4 members and remaining MS4 members.

the two stream segments. However, for this storm event, an E. coli sample was obtained at the Alameda Bridge.

The CMC monitoring scheme does not have an interim E. coli sample at the Alameda Bridge during collection of this sample, which is the division of

For this storm - calculations will be done two ways - 1) using the area approach, as has been done with prior CMC samples and 2) using the Alameda sample to determine the north and south segment loads.

See previous worksheet for the area approach.

In Table 6 - An estimation of the E. coli loading attributable to the CMC is needed to allow comparison with the LA values. This approach uses percentages that calculate a percentage of the CMC LA value divided by the TMDL minus the MOS. This percentage represents an estimate of the percent of the CMC E. coli loading to all of the E. coli contributors (point sources, MS4s, and natural background). This percentage allows a reasonable estimation of the percent of the E. coli loading that is attributable to the CMC MS4s. Since our discussion, we removed the MOS from our percentage calculation.

Using the above approach, the CMC then has an E. coli loading value to compare to the applicable WLA values, for a given stream segment and flow regime.

Table 5

Isleta to Alameda

Isleta Pueblo Boundary to Alameda Street Bridge /

0833000 - Rio Grande at Albuquerque, NM (Central)

| Stream Segment | Stream Name / Related USGS Gage | Contributing Area Ratio for Each Segment | E. coli Loading (CFU/day) for Each Segment | Total TMDL for Segment | TMDL Exceedance? |
|----------------|---|--|--|---------------------------|------------------|
| 2105.1_00 | Alameda to Angostura Non-Pueblo Alameda Bridge to Angostura Diversion / 08329928 - Rio Grande near Alameda | Not Applicable - Have a Mid Point Sample | 1.39E+12 | 2.94E+11 | TMDL Exceeded |
| 2105_50 | Isleta to Alameda Isleta Pueblo Boundary to Alameda Street Bridge / 0833000 - Rio Grande at Albuquerque, NM (Central) | Not Applicable - Have a Mid Point Sample | 1.76E+13 | 1.90E+11 | TMDL Exceeded |

1. Compares the E. coli loading to the TMDL - the E. coli loading represents all of the E. coli sources and not just the CMC MS4. The TMDL could be from any source and this

analysis cannot distinguish between sources.

Table 6

Calculate CMC MS4 E. coli Loading Per Stream Segment Reach - apply Percent based on CMC WLA compared to Total TMDL: Percent of E. coli Total CMC E. coli **Associated with CMC** Loading (CFU/day) **Stream Segment** Stream Name / Related USGS Gage **Flow Conditions** for Each Segment Members Alameda to Angostura Non-Pueblo Alameda Bridge to Angostura Diversion / 2105.1_00 5.8% 1.02E+12 08329928 - Rio Grande near Alameda

2105_50

1. Refer to "WLAs From NMED" worksheet for WLA for estimated percent of E. coli associated with the CMC compared to total TMDL minus the MOS.

2. The CMC measured a total E. coli loading in the Rio Grande - this is all of the E. coli, regardless of source - so the CMC WLA compared to the TMDL minus the Margin of Safety was used as a way to estimate what percent of the total E. coli could be attributed to the CMC. Discussed this approach with NMED on 2/16/17.

Table 7

| Compare Storm Eve | ompare Storm Event E. coli Loading to WLA for CMC: | | | | | | | | |
|-------------------|---|--|-----------------|------------------------------------|--|--|--|--|--|
| Stream Segment | Stream Name / Related USGS Gage | CMC E. coli Loading (CFU/day) for Each Segment | Flow Conditions | WLA for CMC for Flow Conditions | WLA - Potential Exceedance or Acceptable | | | | |
| 2105.1_00 | Alameda to Angostura Non-Pueblo Alameda Bridge to Angostura Diversion / 08329928 - Rio Grande near Alameda | 1.02E+12 | Low | 1.68E+10 | WLA Potential Exceedance | | | | |
| 2105_50 | Isleta to Alameda Isleta Pueblo Boundary to Alameda Street Bridge / 0833000 - Rio Grande at Albuquerque, NM (Central) | 3.20E+11 | Low | 3.42E+09 | WLA Potential Exceedance | | | | |

Low

1.8%

3.20E+11

1. Refer to "WLAs From NMED" worksheet for WLA for CMC for Storm Event. 2. Flow Conditions were defined in Table 3 "Determination of Storm Event Flow Conditions" above.

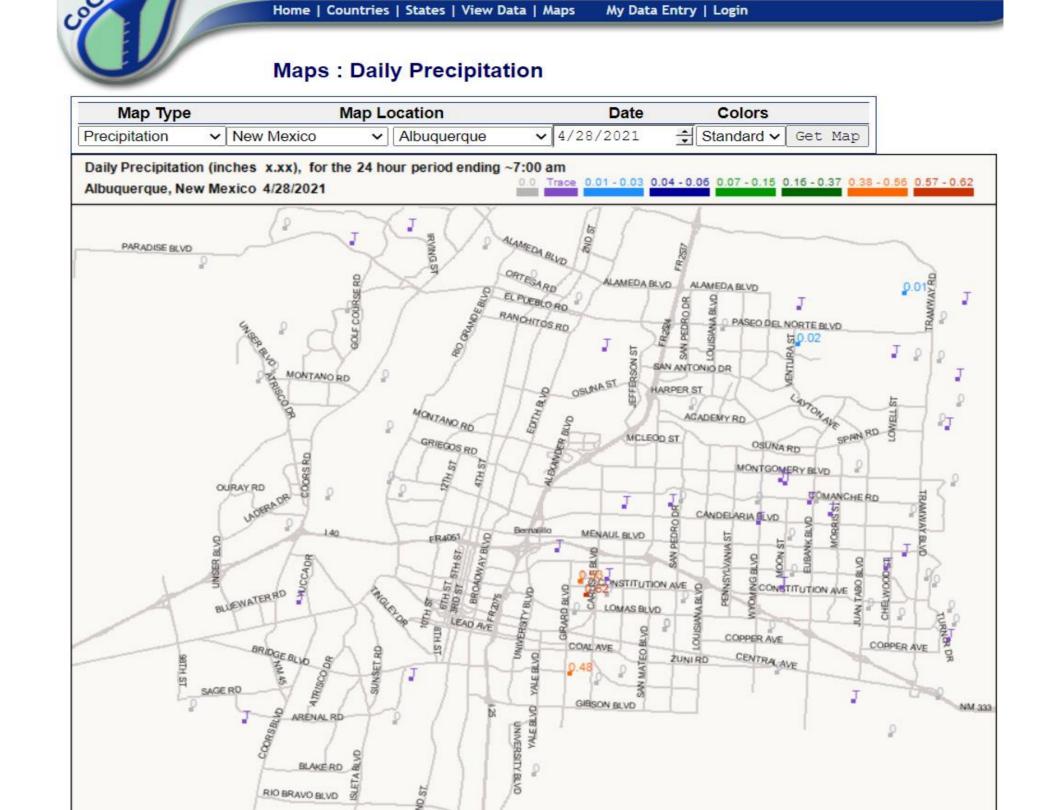
US EPA Approved, Total Maximum Daily Load (TMDL) for the Middle Rio Grande Watershed, June 30, 2010, page 40:

It is important to remember that the TMDL is a planning tool to be used to achieve water quality standards. Since flows vary throughout the year in these systems the target load will vary based on the changing flow. Management of the load to improve stream water quality and meet water quality criteria should be a goal to be attained. Meeting the calculated TMDL may be a difficult objective.

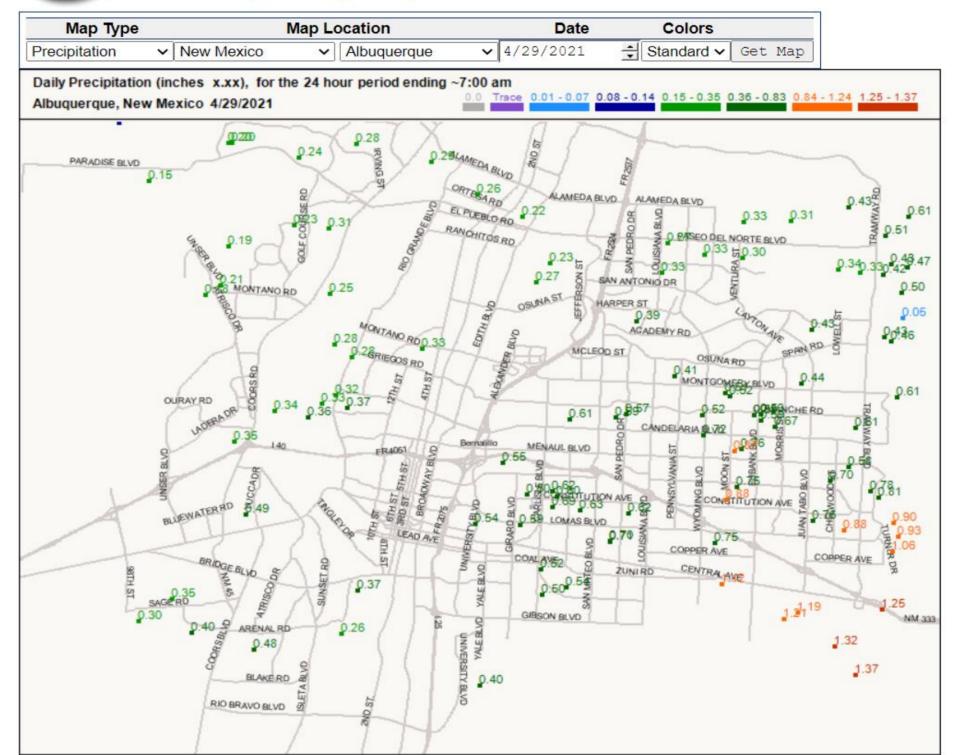
Rainfall Data - CoCoRaHS.org - Precip is for date prior to that shown on map - recorded precipitation is typically at 7 am on date shown.

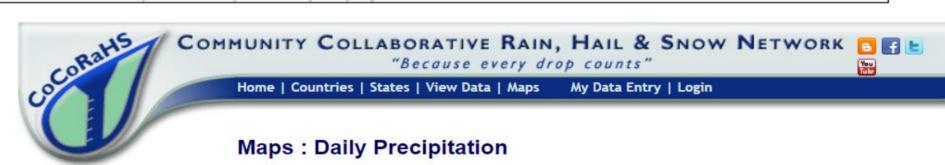
COMMUNITY COLLABORATIVE RAIN, HAIL & SNOW NETWORK 🖸 📳 🕒

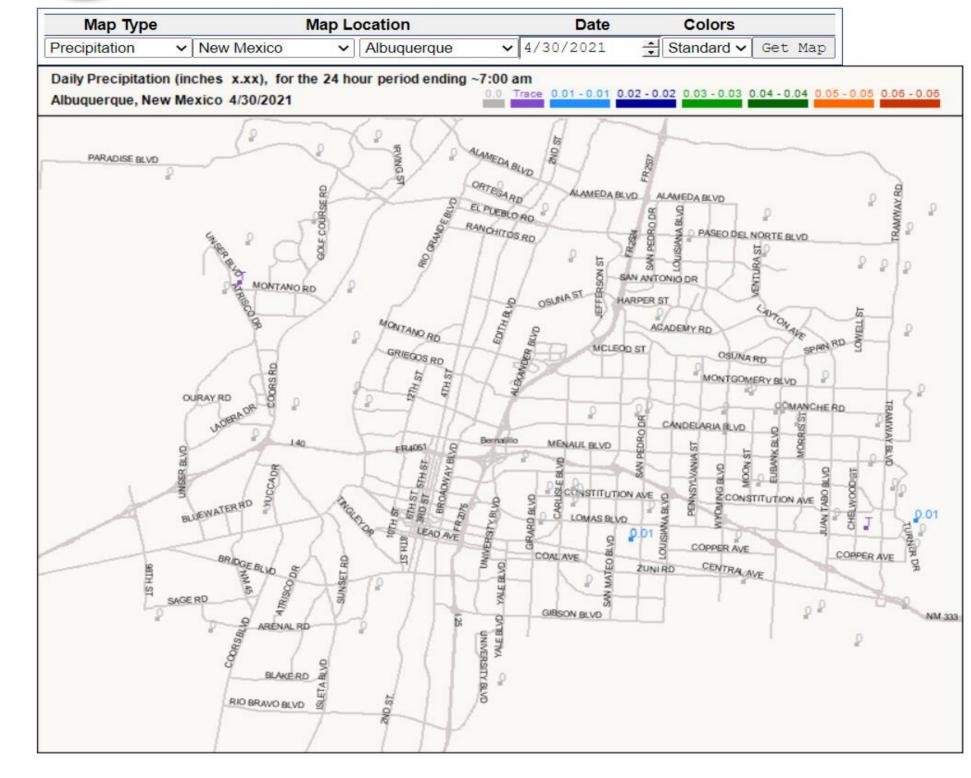
"Because every drop counts"













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MEMORANDUM

DATE: August 10, 2022

TO: Patrick Chavez, PE, AMAFCA

FROM: Sarah Ganley, PE, ENV-SP

Savannah Maynard Emma Adams, El

SUBJECT: CMC Wet Season, Wet Weather Stormwater Monitoring

Data Verification, Analysis Results Database, and Reporting Memo

FY 2022 Wet Season (July 1, 2021 to October 31, 2021)

Notification of In-Stream Water Quality Exceedances

For downstream notification purposes, the following parameters for in-stream samples taken in the Rio Grande for the FY 2022 wet season had results that exceeded applicable water quality standards (WQSs) for one or more samples: E. coli, polychlorinated biphenyls (PCBs), and gross alpha, adjusted. Table 1 summarizes the samples with exceedances and the applicable WQS that was exceeded. Additional details on the sampling results are provided in this memo.

Table 1: Parameters Detected Above Applicable Water Quality Standards
CMC FY 2022 Wet Season Monitoring

| | Parameters, Applicable Water Quality Standard (WQS), and Results Exceeding Applicable WQS | | | |
|--|---|---|--|--|
| | E. coli | PCBs | Gross Alpha, Adjusted | |
| Sampling Date Location | WQS: 88 MPN (CFU/100 mL) | WQS: 0.00017 ug/L | WQS: 0.00017 ug/L | |
| | Pueblo of Isleta Primary Contact Ceremonial & Recreational | Pueblo of Isleta Human Health Criteria (based on fish consumption only) | Pueblo of Isleta Human Health Criteria (based on fish consumption only) | |
| 8/16/2021 Rio Grande North Angostura Diversion Dam Pre-Storm Sample – E. coli Only | 6,867 MPN (CFU/100mL) | Not Tested | Not Tested | |

Table 1 (continued).

| | Parameters, Applicable Water Quality Standard (WQS), and Results Exceeding Applicable WQS | | | |
|---|---|---|--|--|
| | E. coli PCBs | | Gross Alpha, Adjusted | |
| Sampling Date Location | WQS: 88 MPN (CFU/100 mL) | WQS: 0.00017 ug/L | WQS: 0.00017 ug/L | |
| | Pueblo of Isleta Primary Contact Ceremonial & Recreational | Pueblo of Isleta Human Health Criteria (based on fish consumption only) | Pueblo of Isleta Human Health Criteria (based on fish consumption only) | |
| 9/1/2021 Rio Grande North Angostura Diversion Dam Pre-Storm Sample | 183 MPN (CFU/100mL) | 0.00027 ug/L | No Exceedance | |
| 9/2/2021 Rio Grande at Alameda Bridge E. coli Only | 554 MPN (CFU/100mL) | Not Tested | Not Tested | |
| 9/2/2021 Rio Grande South Isleta Diversion Dam | 4,884 MPN (CFU/100mL) | 0.00172 ug/L | 31.56 pCi/L | |

Overview of Stormwater Monitoring Activity

Bohannan Huston, Inc. (BHI) has been tasked to perform water quality services for the Compliance Monitoring Cooperative (CMC) Stormwater Data Verification, Database, and Reporting for the Wet Weather Stormwater Quality Monitoring Program for Fiscal Year (FY) 2022 (July 1, 2021 to June 30, 2022). The scope of work for this task includes data verification of the stormwater laboratory analysis results, compiling the analysis results into a database, and calculating the E. coli loading to compare with the Waste Load Allocation (WLA) for the qualifying storm events. The stormwater compliance monitoring is conducted separately by Daniel B. Stephens & Associates, Inc. (DBS&A) and is not a part of this task. This task is being conducted to assist the CMC members with their comprehensive monitoring and assessment program for compliance under the 2014 Middle Rio Grande (MRG) Watershed Based Municipal Separate Storm Sewer System (MS4) Permit, NPDES Permit No. NMR04A000 ("WSB MS4 Permit").

The WSB MS4 Permit entered Administrative Continuance in December 2019 when U.S. Environmental Protection Agency (EPA) Region 6 did not issue a new MS4 Permit before the current MS4 Permit's expiration date. The MRG Technical Advisory Group (TAG) sent EPA a letter dated October 15, 2019, acknowledging Administrative Continuance after the expiration date of the 5-year Permit term. Until a new MS4 Permit is issued, there are no compliance monitoring requirements for the CMC in the Rio Grande. As identified in the CMC Monitoring

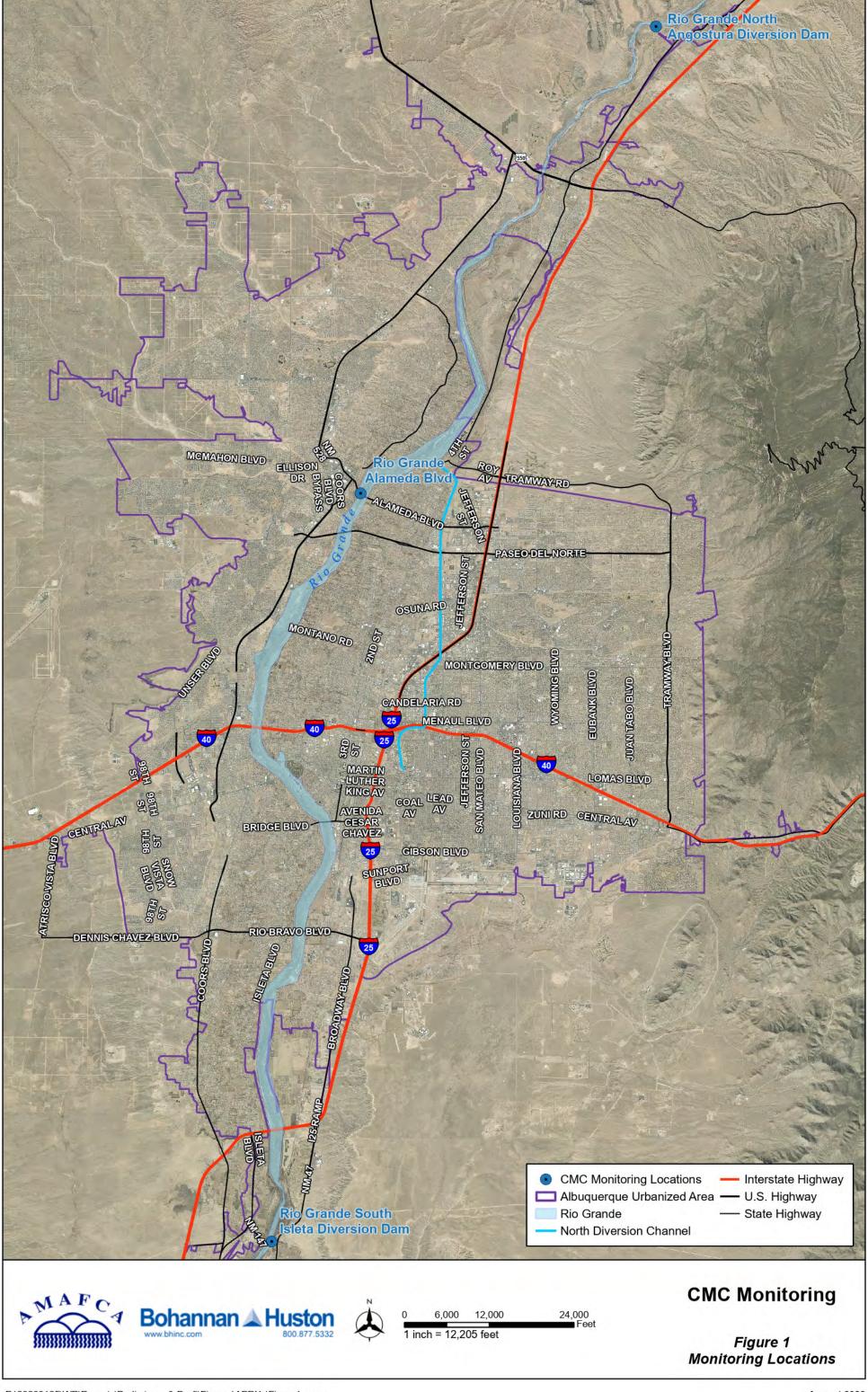
Plan, the WSB MS4 Permit required a minimum of seven (7) storm events be sampled at both the Rio Grande North and Rio Grande South locations (refer to Figure 1, page 4). All Permit required samples have been obtained by the CMC, as well as two (2) samples obtained in FY 2021 and the one (1) sample obtained in FY 2022 wet season during Administrative Continuance; all CMC samples are summarized in Table 2 below.

Table 2: CMC Sample Summary Compared to WSB MS4 Permit Requirements

| No. of Storm Events Required to Sample | CMC-WSB MS4 Permit Required Samples per Season | FY (Date) Samples Obtained for CMC | |
|---|--|---------------------------------------|--|
| 1 | #1 Wet Season | FY 2017 (8/10/2016) | |
| 2 | #2 Wet Season | FY 2017 (9/12/2016) | |
| 3 | #3 Wet Season | FY 2017 (9/21/2016) | |
| 4 | #1 Dry Season | FY 2017 (11/21/2016) | |
| 5 | #2 Dry Season | FY 2019 (3/13/2019) | |
| 6 | Any Season | FY 2018 (Wet Season - 7/27/2017) | |
| 7 | Any Season | FY 2018 (Wet Season - 9/27/2017) | |
| Not Required | Wet Season | FY 2021 (10/28/2020) | |
| Not Required | Dry Season | FY 2021 (4/28/2021) | |
| Not Required | Wet Season | FY 2022 (9/1/2021) | |

During the WSB MS4 Permit Administrative Continuance, the CMC members chose to continue sampling within the Rio Grande to support their MS4 program needs and gather additional data in support of the future MS4 Permit compliance. This memo reports on the wet weather stormwater monitoring activity for the FY 2022 wet season (July 1, 2021 to October 31, 2021).

The CMC Excel database was updated with the FY 2022 wet season, wet weather monitoring data as results were received. The database contains sample location, sample date, analyses conducted, methods used, applicable surface WQSs, WSB MS4 Permit required Minimum Qualification Levels (MQL) and results. Any unusable data will be identified.



Summary of the CMC Sampling Plan

Sampling Parameters:

Samples from both the Rio Grande North and Rio Grande South monitoring locations were analyzed for the parameters defined in the EPA approved WSB MS4 CMC Monitoring Plan, May 5, 2016. The parameter list for both locations, which is intended to characterize stormwater discharges into the river, is as follows:

Total Suspended Solids (TSS)

Total Dissolved Solids (TDS)

Chemical Oxygen Demand (COD)

Biological Oxygen Demand – 5-day (BOD₅)

Dissolved Oxygen (DO)

Oil & grease (N-Hexane Extractable Material)

E. coli

рΗ

Total Kjeldahl Nitrogen (TKN)

Nitrate plus Nitrite

Dissolved Phosphorus

Ammonia plus Organic Nitrogen (Nitrogen, Ammonia and Nitrogen, Total)

Phosphorous (Total Phosphorous)

Polychlorinated Biphenyls (PCBs - Method 1668A)

Gross Alpha, adjusted

Tetrahydrofuran

Benzo(a)pyrene

Benzo(b)fluoranthene (3, 4 Benzofluoranthene)

Benzo(k)fluoranthene

Chrysene

Indeno (1,2,3-cd) Pyrene

Dieldrin

Pentachlorophenol

Benzidine

Benzo(a)anthracene

Dibenzofuran

Dibenzo(a, h)anthracene

Chromium VI (Hexavalent)

Copper – Dissolved

Lead – Dissolved

Bis (2-ethylhexyl) phthalate

Conductivity

Temperature

Hardness (as CaCO3) was added to the parameter list to allow dissolved metal results to be compared to the applicable WQSs. DO, pH, conductivity, and temperature are required by the WSB MS4 Permit to be analyzed in the field during sample collection, which was conducted by DBS&A, within 15 minutes of sample collection. All E. coli samples were submitted to the laboratory within eight (8) hours of collection in order to meet the specified hold time.

Sampling Locations:

The sampling locations are shown in Figure 1, page 4.

Rio Grande North – In-stream sampling within the Rio Grande was performed upstream of the Angostura Diversion Dam at the north end of the watershed. The location is upstream of all inputs from the Urban Area (UA) to the river and provides the background water conditions.

Rio Grande South – In-stream sampling within the Rio Grande was performed at the Isleta Bridge at the south end of the watershed. The location is downstream of all inputs from the UA to the river and provides the downstream water conditions. These locations have been accepted by EPA and the New Mexico Environment Department (NMED) to meet the WSB MS4 Permit requirements in Part III.A.

During this FY 2022 wet season, E. coli samples were collected within the Rio Grande at Alameda Blvd. This is the location of the NMED defined stream segment divide (refer to Figure 6). This sample point was added after discussion with NMED in February 2017 regarding potential refinements to E. coli loading calculations.

Sample Collection:

As mentioned previously, sample collection for the CMC is being conducted by DBS&A (through a separate on-call contract). Since BHI was not involved in the sample collection, this task and memo do not address the details of the methodologies regarding sampling, determining if an event was a qualifying storm event, or determining the timing of the hydrograph at the Rio Grande Alameda and Rio Grande South locations.

DBS&A provided BHI their field notes and field sample data (temperature, DO, specific conductivity, and pH) for the FY 2022 wet season sampling. AMAFCA provided BHI the completed laboratory analysis reports from Hall Environmental Analysis Laboratory (HEAL) for this monitoring season.

Quality Assurance Project Plan (QAPP):

AMAFCA provided BHI with the Draft Quality Assurance Project Plan (QAPP) for the CMC dated June 14, 2016. DBS&A followed this QAPP during sample collection. BHI used this QAPP and the included standard operating procedures (SOPs) for the data verification and validation.

Monitoring Activity & Lab Analysis Summary

The list below provides a summary of the CMC comprehensive monitoring program activities completed for the FY 2022 wet season from July 2021 through October 2021. One (1) qualifying storm event was sampled and analyzed during the FY 2022 wet season.

August 16, 2021 – Only E. Coli for Rio Grande North. A sample was collected at the Rio Grande North location at 10:00 a.m. on August 16, 2021, and was sent to the laboratory for an E. coli only test. Based on the CMC review of the storm, it was determined this was not a qualifying storm event, hence further parameter testing was not conducted for the sample collected at the Rio Grande North location.

➤ September 1-2, 2021 – Qualifying Storm Event – Full Analysis of Samples. A sample was collected at the Rio Grande North location beginning at 9:15 a.m. on September 1 and sent to the laboratory for an E. coli and BOD test. A pre-storm sample was collected at the Rio Grande at Alameda Blvd. location at 11:25 a.m. on September 1 and tested for E. Coli only. The CMC determined that the storm event beginning September 1 was a qualifying storm event. A sample in the Rio Grande at Alameda Blvd. was obtained at 10:30 a.m. on September 2 and sent to the laboratory for E. Coli testing only. A Rio Grande South sample was collected beginning at 8:35 a.m. on September 2. The samples from the North (from September 1) and South (from September 2) locations were taken to HEAL for full parameter testing.

Stormwater Quality Database for CMC

As stated previously, there was one (1) qualifying storm event during the FY 2022 wet season, wet weather monitoring sampled by the CMC, which occurred September 1-2, 2021. DBS&A's field notes containing DO, pH, conductivity, and temperature measurements, as well as sampling comments have been received, and field results have been added to the database. Additionally, the HEAL reports for the corresponding time period have been received, added to the database, and are provided with this memo (Attachment 1). The laboratory reports attached to this memo have BHI added comments including the field parameter measurements and other relevant notes related to the laboratory report.

Database Data Entry:

The CMC Excel database was updated with the FY 2022 wet season, wet weather monitoring data. The database contains sample locations, sample date, analyses conducted, methods used, applicable surface water quality standards (WQS), WSB MS4 Permit required Minimum Quantification Levels (MQL), and analysis results. The database was updated under this Task to include the Rio Grande at Alameda sample location. Applicable surface WQSs found in New Mexico Administrative Code (NMAC) 20.6.4, as well as the Pueblo of Isleta WQSs, are entered in the Excel database for comparison purposes with testing results. There is an indicator in the database to show if the monitoring results exceed the applicable surface WQS. An exceedance is not a violation of the WSB MS4 Permit, as the Permit does not have numeric discharge limitations. These ">WQ Standard" flags simply and quickly show the CMC members where the results of the lab data exceed the applicable WQS.

Water quality data was entered into the database upon receipt of the lab reports. All data entered into the database is initially denoted with a "P" to indicate that it is provisional and has not been through the verification and validation process yet. Full parameter analyses of qualifying storm events for both Rio Grande North and Rio Grande South locations were entered respectively into the database. The E. coli only samples from the Rio Grande Alameda location were also entered into the database.

Data Verification and Validation:

The HEAL analysis reports were provided to BHI by AMAFCA. The lab reports also contain the Chain of Custody for the submitted samples. Field data was requested by and provided to BHI by DBS&A. Data verification and validation (V&V) was conducted by BHI on all field notes, lab reports, and Chain of Custody documents in accordance with the CMC WQS Operating Procedure

(SOP) #2, which is part of the existing CMC QAPP, Draft June 14, 2016. These procedures are based on EPA Guidance for Environmental Data Verification and Validation (EPA, 2008).

As stated in the QAPP, the V&V process was completed by a different person than the one who entered the data into the database. The V&V process included use of the *Data Verification and Validation Worksheet* (provided in the QAPP). For this task, field data was verified first, confirming all field notes were complete. BHI handled field parameter questions directly with DBS&A. Chemical data verification began as soon as the lab reports were received, checking that all parameters were tested and looking for any obvious exceedances of WQS. Other steps listed on the *Data Verification and Validation Worksheet* were completed after all data from the laboratory was received and entered into the database. Sample blank results were reviewed to identify potential contamination during field processing or transport. Replica/duplicate samples were evaluated based on relative percent difference (as described in more detail in the QAPP) to determine the variability of the samples.

All CMC FY 2021 wet season data met the appropriate QA/QC requirements. If there were any data that did not meet the appropriate QA/QC requirements, it would have been assigned an appropriate laboratory qualifier or validation codes. A summary of validation codes is provided in the QAPP.

Once the V&V process was completed, the worksheets were signed. Copies of the V&V worksheets are provided with this memo (Attachment 2). In the database, data that was checked during the V&V process was then changed from being denoted with a "P" for provisional to a "V" for verified, and laboratory qualifiers were added, as needed.

CMC FY 2022 Wet Season Assessment and Evaluation of Monitoring Results

The EPA approved WSB MS4 CMC Monitoring Plan, May 5, 2016, has 33 parameters to monitor at the Rio Grande North and Rio Grande South monitoring locations. Of these 33 parameters, 15 parameters were not detected in the FY 2022 wet season samples at either the Rio Grande North or South locations. Refer to Table 3 for a list of the parameters that were not detected.

Table 3: Parameters Not Detected CMC FY 2022 Wet Season Monitoring

| Parameters Not Detected | | |
|--|---|--|
| Oil and Grease (N-Hexane Extractable Material) | Pentachlorophenol | |
| Tetrahydrofuran | Benzidine | |
| Benzo(a)pyrene | Benzo(a)anthracene | |
| Benzo(b)fluoranthene (3, 4 Benzofluoranthene) | Dibenzofuran | |
| Benzo(k)fluoranthene | Dibenzo(a,h)anthracene | |
| Chrysene | Chromium VI (Hexavalent) | |
| Indeno (1,2,3-cd) Pyrene | Bis (2-ethyhexyl) Phthalate (other names: | |
| Dieldrin | Di(2-ethylhexly)phthalate, DEHP) | |

For the remaining 18 parameters on the CMC monitoring parameter list, only three (3) parameters (E. coli, PCBs, and gross alpha, adjusted) had exceedances of the applicable surface WQS found in New Mexico Administrative Code (NMAC) 20.6.4 and the Pueblo of Isleta WQS during the FY 2022 wet season. These exceedances are summarized on Table 1, pages 1-2, and discussed below in further detail.

E. coli:

The E. coli results collected during the FY 2022 wet season are summarized in Table 4.

Table 4: E. coli Results
CMC FY 2022 Wet Season Monitoring

| Date – Rio Grande Location | E. coli Results MPN (CFU/100 mL) | |
|-----------------------------|-------------------------------------|--|
| August 16, 2021 – North | 6,867 | |
| September 1, 2021 – North | 183 | |
| September 1, 2021 – Alameda | 20 | |
| September 2, 2021 – Alameda | 554 | |
| September 2, 2021 - South | 4,884 | |

At the Rio Grande North location (upstream of the Albuquerque UA, at the Angostura Diversion Dam), two (2) samples were collected and tested for E. coli. Both E. coli results exceeded Pueblo of Isleta and Pueblo of Sandia's primary contact-single sample WQS of 88 CFU/100 mL, and one sample (August 16, 2021) was above and one sample (September 1, 2021) was below NMAC's primary contact-single sample WQS of 410 CFU/100 mL. At the Rio Grande South location (downstream of the MS4 UA), one (1) sample was collected and tested for E. coli. This sample also exceeded the Pueblo of Isleta WQS (88 CFU/100 mL) and the NMAC's WQS (410 CFU/100 mL) for E. coli concentration.

In addition, the CMC collected two (2) E. coli samples in the Rio Grande at Alameda Blvd. during the FY 2022 wet season. The Alameda Blvd. analysis point was based on discussions with NMED in February 2017 on collecting actual E. coli data at the stream segment divide verses using an area percentage (as defined in the TMDL) for E. coli loading calculations. For the FY 2022 wet season storm event, two (2) samples were collected at the Alameda location. One sample was taken before the storm event and one was taken after. The lab results showed that the pre-storm sample had an acceptable E. coli concentration, while the post-storm sample exceeded the primary contact-single sample Pueblo of Isleta WQS (88 CFU/100 mL) and the primary contact-single sample NMAC WQS (410 CFU/100 mL).

As a reminder, in January 2017 the CMC members clarified with NMED that the units MPN/100 mL and CFU/100 mL are considered to be interchangeable for the purposes of this stormwater quality monitoring reporting. The New Mexico and Pueblo WQS for E. coli are currently in units of CFU/100 mL while the lab reports are typically in units of MPN/100mL. The graph presented in this section uses units of CFU/100 mL to be consistent with the WQS units. Refer to Figure 2 for a graphical representation of E. coli results from August and September 2021.

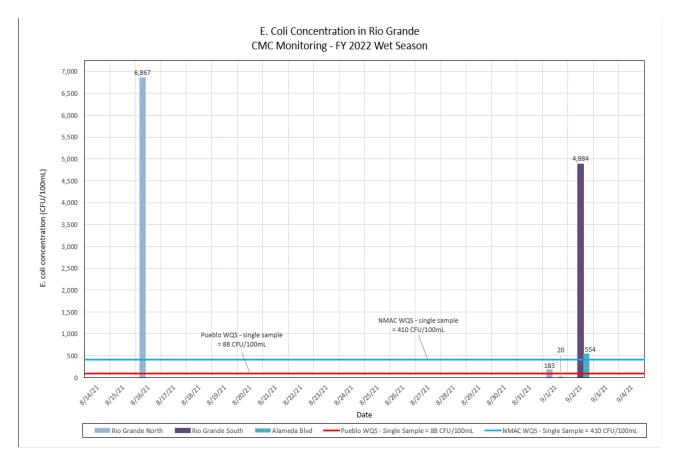


Figure 2: E. coli Results in Rio Grande CMC Monitoring – FY 2022 Wet Season

PCBs:

There are multiple surface WQS values listed for PCBs in both the Pueblo of Isleta and the State of New Mexico standards for the various designated uses. The PCBs measured in samples collected from the Rio Grande during the FY 2022 wet season stormwater event were all below the minimum quantification level (MQL) established in EPA standards for the MS4 NPDES Permit (Appendix F, 0.2 ug/L for PCBs). The PCB results were also well below the New Mexico Surface WQSs and Pueblo of Isleta Surface WQSs for designated uses including drinking water (0.5 ug/L) and wildlife habitat, acute aquatic life, and chronic aquatic life (0.014 ug/L). However, the CMC sample from the Rio Grande South location was above the Pueblo of Isleta human health criteria (based on fish consumption only) WQS for surface waters. The human health-organism only criterion is based upon human consumption of fish and other aquatic life that bioaccumulate contaminants over time. The PCB results from 2016 through 2021 are shown in Figure 3 relative to several of the WQSs for PCBs.

NMAC Wildlife & Aquatic Toxicity (Acute) & Isleta Aquatic Toxicity (Chronic) = 0.014 ug/l 0.01400 0.01200 PCB Concentration, ug/L 0.01000 0.00800 0.00600 0.00400 0.002190 0.00261 0.00146 0.00200 0.001720 0.000270 0.00104 0.00 NMAC WQS HH-OO = 0.00144 0.00064 ug/L 0.000187 Isleta WQS HH Crite 0.00000 12/12/2015 1/15/2017 2/19/2018 3/26/2019 4/29/2020 6/3/2021 7/8/2022 Date

PCB Concentration in Rio Grande - North and South of MRG MS4

Figure 3: PCB Monitoring Results in Rio Grande CMC Monitoring – 2016 - 2021

NMAC Wildlife & Aquatic (Acute) & Isleta Aquatic (Chronic) = 0.014 ug/l

NMAC WQS HH-OO = 0.00064 ug/L Isleta WQS HH Criteria = 0.00017 ug/L

Rio Grande North

Adjusted Gross Alpha:

The September 2, 2021, Rio Grande South sample results exceeded the New Mexico and Pueblo of Isleta WQS for adjusted gross alpha. The WQS for adjusted gross alpha is the same value for both the NMAC 20.6.4 Water Quality Criterion and Pueblo of Isleta; the WQS of 15 pCi/L ("pCi/L" means picocuries per liter) is a general standard for the Pueblo of Isleta, and for New Mexico it is based on Domestic Water Supply and Livestock Watering designated uses. In surface water, the adjusted gross alpha analyses may be affected by a high content of suspended load, particularly where sediment sources may be derived from granitic terrain; gross alpha results may reflect the radioactivity of the natural elements in the sediment more than the surface water.

The September 2, 2021, Rio Grande South adjusted gross alpha analytical results are detailed below; the units are in pCi/L:

- Rio Grande South CMC sample result for adjusted gross alpha = 31.56 pCi/L
- Adjusted gross alpha WQS at the Rio Grande South location = 15 pCi/L (NMAC 20.6.4 Water Quality Criterion for livestock watering and domestic water supply designated uses and general standard for Pueblo of Isleta)

This is the second time since 2016 that the analytical results from a CMC sample have had an exceedance in adjusted gross alpha. The prior exceedance was reported for the September 28, 2017, Rio Grande South sample. The CMC will continue to closely evaluate this parameter in future samples. If additional exceedances occur, the CMC will discuss the results further and may consult NMED for further guidance.

Dissolved Oxygen and Temperature:

Two (2) of the water quality parameters are specifically worth mentioning in this memo because they are listed in the WSB MS4 Permit, Part I.C.1 – Special Conditions: dissolved oxygen and temperature. These parameters did not have any surface water quality exceedances during the FY 2022 wet season sampling.

Dissolved oxygen is a water quality concern in the Rio Grande if it is below 5 mg/L. None of the samples taken from the Rio Grande during the FY 2022 wet season monitoring had dissolved oxygen values below 5 mg/L. This provides the MS4s with specific monitoring data showing that stormwater did not cause or contribute to exceedances of applicable dissolved oxygen water quality standards in the Rio Grande from any of the CMC samples from 2016 to 2021. Refer to Figure 4 for CMC dissolved oxygen results and comparison to applicable WQSs.

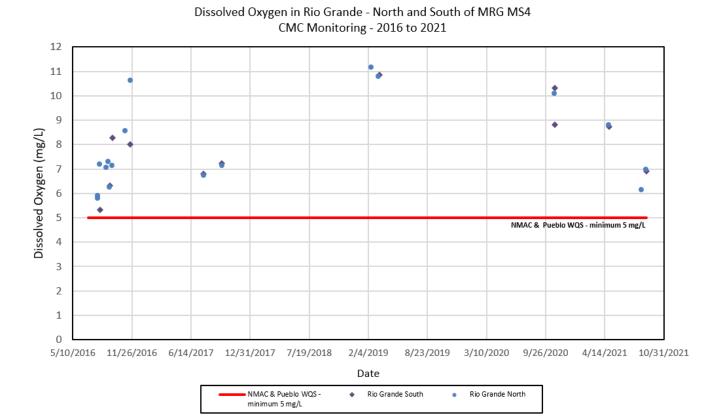


Figure 4: Dissolved Oxygen Results in the Rio Grande CMC Monitoring – 2016 - 2021

Temperature is listed in the WSB MS4 Permit as a special condition (currently only applicable to the City of Albuquerque and AMAFCA). Past data submitted to EPA and NMED by the MS4 permittees have proven that stormwater discharges into the Rio Grande are not raising the Rio Grande temperature above the WQSs. The data collected during this FY 2022 wet season monitoring also supports this conclusion. All the temperature field readings taken in the Rio Grande during the CMC FY 2022 wet season were below 32.2°C (90°F), which is the WQS for the State of New Mexico and for the Isleta and Sandia Pueblos. Refer to Figure 5 for temperature results and comparison to applicable WQSs for all CMC samples taken upstream and downstream of the MRG MS4 area from 2016 to 2021.

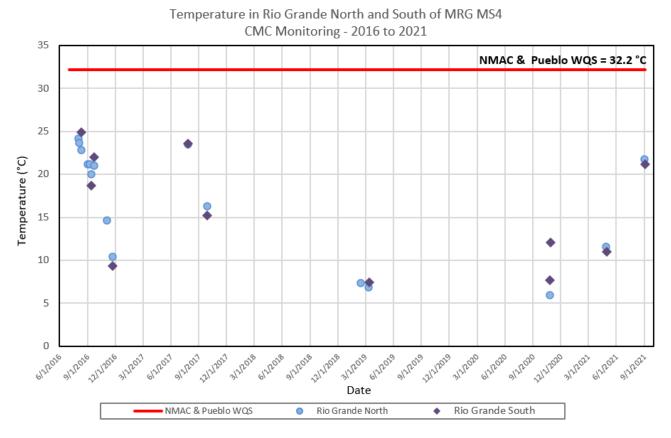


Figure 5: Temperature Monitoring Results in the Rio Grande CMC Monitoring – 2016 - 2021

CMC FY 2022 Wet Season E. coli Loading Calculations and Waste Load Allocation (WLA)

Related to assessing the stormwater results, the E. coli loading was calculated and compared to the aggregate Total Maximum Daily Load (TMDL) Waste Load Allocation (WLA) for the CMC group. A TMDL is the maximum amount of a pollutant (E. coli in this case) that a water body (Rio Grande) can assimilate on a daily basis without violating applicable surface WQSs. The total TMDL for a stream segment consists of the multiple WLA for point sources, non-point sources, and natural sources, plus a margin of safety. The CMC MS4 allotted WLA was determined in the EPA Approved, Total Maximum Daily Load for the Middle Rio Grande Watershed, June 30, 2010, and subsequent communications with NMED. The WLA varies by flow condition in the Rio Grande and by stream segment.

E. coli loading calculations and comparison to the WLA follows the WSB MS4 Permit requirements in "Discharges to Water Quality Impaired Water Bodies with an Approved TMDL", Part I.C.2.b.(i).(c).B, Appendix B-Total Maximum Daily Loads (TMDLs) Tables of the WSB MS4 Permit, and the NMED guidance provided to the CMC. Attached to this memo is the WLA Calculation spreadsheet which steps through the E. coli loading calculations and assumptions comparing the calculated E. coli loading to the CMC aggregate WLA defined by NMED.

There are two (2) stream segments defined in the WSB MS4 Permit (Appendix B): Isleta Pueblo Boundary to Alameda Street Bridge (Stream Segment 2105_50) and Non-Pueblo Alameda Bridge to Angostura Diversion (Stream Segment 2105.1_00). These stream segments differ from NMED's current stream segments defined in the 2020-2022 State of New Mexico Clean Water Act Section 303(d)/Section 305(b) Integrated Report (NMED, 2020). NMED currently has four (4) stream segments instead of the two (2) WSB MS4 stream segments. These various stream segment designations are shown in Figure 6, page 16.

The NMED 303(d)/305(b) 2020-2022 Integrated Report tables show the most recent assessment results, and currently all segments of the Rio Grande (Isleta to Angostura Diversion) are impaired for E. coli and have a TMDL for E. coli.

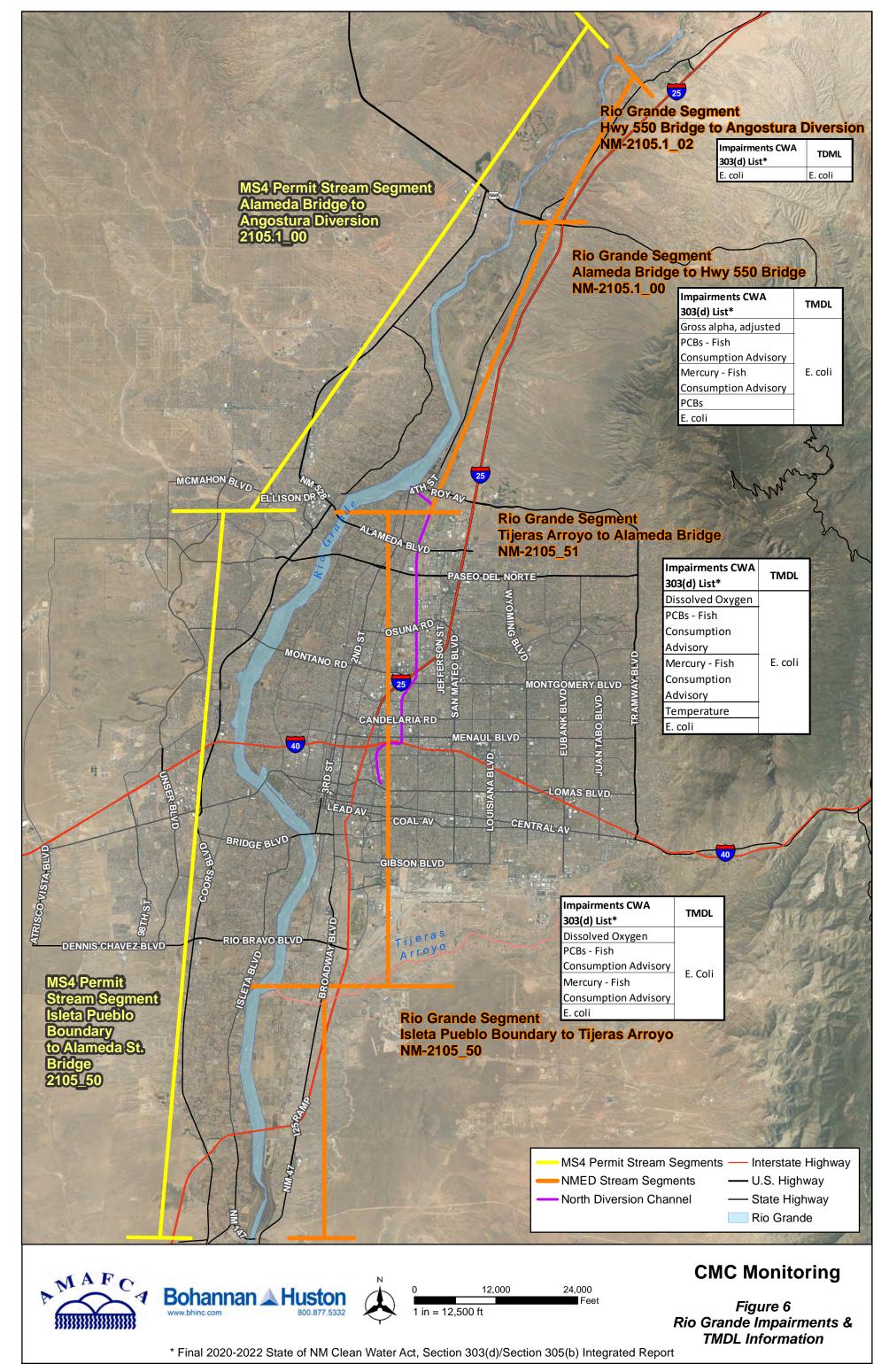
The E. coli daily loading associated with the CMC group and comparison to the NMED WLA was completed for the one (1) qualifying wet season storm event – September 1-2, 2021. For this event, the CMC obtained an E. coli sample in the Rio Grande at Alameda and used this to calculate the E. coli loading for the two (2) river segments. Refer to Table 5 for a summary of the WLA comparison results. A spreadsheet is attached to this memo that provides the detailed WLA calculations.

Table 5: Summary of CMC E. Coli Loading Compared to WLA for the CMC

| Date / Stream Segment | Daily Mean Flow (cfs) | Flow Conditions (cfs) range defined by NMED | CMC Daily E. coli Loading (CFU/day) | NMED WLA for CMC for Stream Segment and Flow Conditions | Loading Compared to WLA Potential Exceedance or Acceptable |
|--|--------------------------------|---|--|---|--|
| September 1-2, 2021 – Rio Grande North E. coli Concentration 9/1/2021 = 183 MPN (CFU/100 mL) Rio Grande at Alameda pre-storm E. coli Concentration 9/1/2021 = 20 MPN (CFU/100 mL) Rio Grande at Alameda E. coli Concentration 9/2/2021 = 554 MPN (CFU/100 mL) Rio Grande South E. coli Concentration 9/2/2021 = 4,884 MPN (CFU/100 mL) | | | | | |
| Alameda to Angostura | 146 | Low | 1.02E+12 | 1.68E+10 | WLA Potential Exceedance |
| Isleta to Alameda | 165 | Low | 3.20E+11 | 3.42E+09 | WLA Potential Exceedance |

As Table 5 illustrates, the calculated E. coli loading for the September 1-2, 2021 storm event for the northern segment (Alameda to Angostura) and the southern segment (Isleta to Almeda) of the Rio Grande exceeded the WLA for the CMC MS4s. This analysis used the mid-point E. coli sample result obtained in the Rio Grande at Alameda.

The WSB MS4 Permit implies that the WLA is a measurable goal for the MS4s related to E. coli. Based on extensive review of the EPA Approved, Total Maximum Daily Load (TMDL) for the Middle Rio Grande Watershed, June 30, 2010, this seems to be an unattainable goal for MS4s.



Page 40 of the 2010 TMDL Report states, "It is important to remember that the TMDL is a planning tool to be used to achieve water quality standards...Meeting the calculated TMDL may be a difficult objective." The TMDL/WLA was calculated by NMED to meet the Pueblo (Sandia and Isleta) geometric mean maximum of 47 CFU/100 ml, which was done to be "protective of downstream waters" and "to provide an implicit margin of safety (MOS)". A single grab sample E. coli result meeting this very low geometric means WQSs will be very difficult for the MS4s to obtain.

The CMC members discussed the difficulty of using the WLA as a measurable goal with NMED on February 1, 2017. NMED explained that exceeding the WLA does not trigger enforcement. However, NMED strongly encouraged the MS4s to document what they are doing once they realize the WLA is potentially exceeded. The meeting on February 1, 2017, and the CMC discussion with NMED on February 16, 2017, demonstrate CMC members are working toward understanding the WLA. In addition, the CMC members began implementing a refinement to the sampling plan discussed with NMED by obtaining an E. coli sample in the Rio Grande at Alameda effective the FY 2018 wet season, as feasible. This demonstrates that the CMC is continuing to investigate the potential exceedances and make improvements to monitor E. coli in the Rio Grande.

Data Entry for Discharge Monitoring Reports

The WSB MS4 Permit entered Administrative Continuance in December 2019 when EPA Region 6 did not issue a new MS4 Permit before the current MS4 Permit's expiration date. Until a new MS4 Permit is issued, there are no compliance monitoring requirements for the CMC in the Rio Grande. As identified in the CMC Monitoring Plan, the WSB MS4 Permit required a minimum of seven (7) storm events be sampled at both the Rio Grande North and Rio Grande South locations. All MS4 Permit required samples have been obtained by the CMC and verified stormwater quality data from these required events have been submitted to the EPA using electronic Discharge Monitoring Report (DMR) forms. Data from the DMRs are uploaded to a comprehensive nationwide database that contains discharge data for facilities and other point sources that discharge directly to receiving streams. For this Task, BHI has not completed any data entry related to the EPA DMRs for the FY 2022 wet season.

Conclusions and Planning

During the FY 2022 wet season (July 1 to October 31, 2021), one (1) qualifying stormwater sample was obtained by the CMC. Lab results were received, and this data has been entered into the CMC Excel database. The lab data entered is marked in the spreadsheet as "V" (verified), and data V&V has been completed (refer to Attachment 2).

To summarize, monitoring results and E. coli loading calculations for the FY 2022 wet season show that:

➤ The WSB MS4 Permit entered Administrative Continuance in December 2019 when U.S. Environmental Protection Agency (EPA) Region 6 did not issue a new MS4 Permit before the current MS4 Permit's expiration date. Until a new MS4 Permit is issued, there are no compliance monitoring requirements for the CMC in the Rio Grande. All MS4 Permit required samples have been obtained by the CMC, as well several samples collected during Administrative Continuance, including the one (1) sample obtained in the FY 2022 wet season, as reported in this memo.

- ➤ For the FY 2022 wet season, 15 of the 33 parameters tested were not detected in any of the Rio Grande North or South samples.
- Several key parameters all met the applicable WQSs, as they have for all the CMC samples to date:
 - o All dissolved oxygen results were greater than 5 mg/L (minimum WQS).
 - o All temperature results were less than 32.2°C (maximum WQS).
- ➤ The PCB results were below the New Mexico Surface WQSs and Pueblo of Isleta Surface WQSs for designated uses including drinking water, wildlife habitat, acute aquatic life, and chronic aquatic life. However, the Rio Grande North and South CMC samples from September 1-2, 2021 were above the Pueblo of Isleta human health criteria (based on fish consumption only) WQS for surface waters.
- ➤ The September 2, 2021, Rio Grande South sample result exceeded the New Mexico Surface WQSs and Pueblo of Isleta Surface WQSs (15 pCi/L) for adjusted gross alpha. This is the second time since 2016 that the analytical results from a CMC sample have had an exceedance in adjusted gross alpha. The CMC will continue to closely evaluate this parameter in future samples
- ➤ The calculated E. coli loading for the September 1-2, 2021 storm event for the northern segment (Alameda to Angostura) and the southern segment (Isleta to Almeda) of the Rio Grande exceeded the WLA for the CMC MS4s. This analysis used the mid-point E. coli sample result obtained in the Rio Grande at Alameda.
 - Sources for the E. coli loading measured in the river are not solely attributable to the CMC MS4 members; the E. coli loading calculations serve to provide a reasonable estimate of the CMC contribution to the measured E. coli loading.
 - This sampling and calculation approach is only an estimate of the CMC contribution to the E. coli loading which is why the term "potential exceedance" is used.
 - The in-stream data does not provide the concentration of E. coli contributed by only the CMC MS4s or any of the other potential sources. By using this percentage calculation approach, if other contributors are in exceedance of the WLA, then the CMC will likely also be in exceedance since this approach relies on a percentage of a total.

For planning purposes for the CMC members, the FY 2022 dry season CMC monitoring will be summarized by BHI for the CMC in a dry season memo.

SG/ab

Attachments:

Attachment 1 – DBS&A Field Data & Hall Environmental Analysis Laboratory Reports with BHI Notes for FY 2022 Wet Season

Attachment 2 - FY 2022 Wet Season Completed Data Verification and Validation (V&V) Forms

Spreadsheets Included Separately:

E. coli Loading and Comparison to Waste Load Allocation (WLA) Excel Spreadsheet Excel CMC Spreadsheet with FY 2022 Wet Season Stormwater Quality Monitoring Results

ATTACHMENT 1

DBS&A FIELD DATA & HALL ENVIRONMENTAL ANALYSIS LABORATORY REPORTS WITH BHI NOTES FOR FY 2022 WET SEASON

| | | Rio Grand | de - North - At A | ngostur | a Dam | | | 1 | T | | | | T | Rio Grande - Ala | meda Bridge | e (E. coli | Only Samples) | | | |
|--|--------------------------|----------------------------|--|-----------|---|----------------------------|---|--|--|----------------------------|---|--|---|-------------------------|--|------------|--|------------------------|--|---|
| Parameter | Permit Required Units | Provisional or Verified | Wet Season Sample Non Qualifying | Qualifier | Check compared to Water Quality Criterion | Provisional or Verified | 2022 CMC SAMPLE - EXTRA NORTH Collection Date 9/01/2021 Wet Season Sample | Qualifier | Check compared to Water Quality Criterion | Provisional or Verified | 2022 CMC SAMPLE - EXTRA SOUTH Collection Date 9/02/2021 Wet Season Sample | Qualifier | Check compared to Water Quality Criterion | Provisional or Verified | 2022 CMC SAMPLE - EXTRI ALAMEDA Collection Date 9/1/2021 Wet Season Pre-Storm Sample | Qualifier | Check compared to Water Quality Criterion | Provisional or Verific | 2022 CMC SAMPLE - EXTRA ALAMEDA Collection Date 9/2/2021 Wet Season Sample | Qualifier Check compared to Water Quality Criterion |
| Total Suspended Solids (TSS) | mg/L | Vermed | | | | v | 130 | | - | v | 790 | D | _ | Trovisional of Vermed | | | | Trousional of Verni | | |
| Total Dissolved Solids (TDS) | mg/L | | | | | v | 230 | D | OK | v | 330 | D | ОК | | | | | | | |
| Chemical Oxygen Demand (COD) | mg/L | | | | | v | 22.2 | | _ | v | 54.2 | | _ | | | | | | | |
| Biochemical Oxygen Demand (BOD ₅) | mg/L | | | | | v | 2.7 | RE | - | v | 4.9 | | - | | | | | | | |
| Dissolved Oxygen (DO) | mg/L | V | 6.13 | | OK | v | 6.98 | | OK | v | 6.92 | | ОК | ٧ | 7.06 | | OK | V | 6.92 | ОК |
| Oil and Grease (N-Hexane Extractable Material) | mg/L | | | | | v | ND | | OK | ٧ | ND | | ок | | | | | | | |
| E. coli | MPN (CFU/100 mL) | ٧ | 6,867 | | >WQ Standard | V | 183 | | >WQ Standard | ٧ | 4,884 | | >WQ Standard | v | 20.0 | | ОК | ٧ | 554.0 | >WQ Standard |
| рН | S.U. | V | 7.92 | | ОК | v | 8.63 | | ОК | ٧ | 8.11 | | ОК | ٧ | 8.37 | | ОК | ٧ | 7.72 | OK |
| Total Kjedahl Nitrogen (TKN) | mg/L | | | | | ٧ | 4.1 | | - | v | 2 | JD | - | | | | | | | |
| Nitrate plus Nitrite | mg/L | | | | | V | ND | _ | OK | v | 1.8 | _ | ОК | | | | | | | |
| Dissolved Phosphorous Ammonia (mg/L as N) | mg/L | | | | | V | 0.15 | J D | OK OK | v | 1.4 ND | D | | | | | | | | |
| Ammonia (mg/L as N) | mg/L | | | | | v | 0.42 4.52 | | OK OK | v | 3.80 | | ОК | | | | | | | |
| Total Nitrogen | mg/L | | | | | · | 4.32 | 1 | OK. | • | 5.00 | | - 04 | | | | | | | |
| Total Phosphorous | mg/L | | | | | v | 0.29 | D | _ | v | 1.3 | D | - | | | | | | | |
| PCBS - 0.000064 (Method 1668A - sum of all congeners) | μg/L | | | | | ٧ | 0.00027 | J Note - Gross | >WQ Standard | V | 0.00172 | J Note - Gross | >WQ Standard | | | | | | | |
| Gross Alpha, Adjusted | pCi/L | | | | | v | 4.94 | Alpha was reported, not adjusted gross alpha. Calculation completed to determine adjusted gross alpha. | ОК | V | 31.56 | Alpha was reported, not adjusted gross alpha. Calculatio completed to determine adjusted gross alpha. | n >WQ Standard | | | | | | | |
| Tetrahydrofuran | μg/L | | | | | ٧ | ND | | - | v | ND | | - | | | | | | | |
| Benzo(a)pyrene Benzo[b]fluoranthene (other name: 3,4- | μg/L | | | | | v | ND | | OK | v | ND | | ОК | | | | | | | |
| Benzofluoranthene) | μg/L | | | | | ٧ | ND | | OK | v | ND | | ОК | | | | | | | |
| Benzo(k)fluoranthene | μg/L | | | | | ٧ | ND | | OK | v | ND | | ОК | | | | | | | |
| Chrysene | μg/L | | | | | v | ND | | OK | v | ND | | ОК | | | | | | | |
| Indeno(1,2,3-cd)Pyrene | μg/L | | | | | v | ND | | OK | v | ND | | ОК | | | | | | | |
| Dieldrin | μg/L | | | | | ٧ | ND | | OK | v | ND | | ОК | | | | | | | |
| Pentachlorophenol | μg/L | | | | | v | ND | | OK | v | ND | | ОК | | | | | | | |
| Benzidine | μg/L | | | | | ٧ | ND | | ОК | v | ND | | ОК | | | | | | | |
| Benzo(a)anthracene | μg/L | | | | | V | ND | | ОК | v | ND | | ОК | | | | | | | |
| Dibenzofuran | μg/L | | | | | ٧ | ND | | - | v | ND | | - | | | | | | | |
| Dibenzo(a,h)anthracene | μg/L | | | | | V | ND | | OK | V | ND | | ОК | | | | | | | |
| Chromium VI (Hexavalent) | μg/L | | | | | V | ND | | OK | V | ND | | OK | | | | | | | |
| Dissolved Copper | μg/L | | | | | v | 0.84 | J | OK | ٧ | 1.5 | | ОК | | | | | | | |
| Dissolved Lead | μg/L | | | | | v | 0.065 | 1 | OK | v | 0.32 | 1 | ОК | | | | | | | |
| Bis (2-ethyhexyl) Phthalate (other names: Di(2- ethylhexly)phthalate, DEHP) - 2.2 | μg/L | | | | | v | ND | | OK | v | ND | | ОК | | | | | | | |
| Conductivity | umhos/cm | V | 591 | | - | V | 315 | | - | v | 484 | | - | V | 375 | | - | V | 383 | |
| Temperature | °C | v | 21.24 | | ОК | ٧ | 21.71 | | OK | v | 21.21 | | ОК | v | 23.19 | | ОК | v | 22.14 | ОК |
| | mg/L | | | | | v | 160 | | - | v | 290 | | - | | | | | | | |
| Hardness (as CaCO ₃) | | | | | | | | | | | | | | | | | | | | |

Data Verification/Validation and Qualifier Notes:

(R) The sample results are unusable because certain criteria were not met. The analyte may or may not be present in the sample.

(H) Sample holding time exceeded.

(J) The analyte was positively identified and the associated numerical value is the approximate concentration of the analyte in the sample.

(U) Analyte was analyzed for, but not detected above the specified detection limit.

Notes:

1. Wet Season monitoring period - July 1 to October 31 and Dry Season monitoring period - November 1 to June 30 according to the Watershed Based MS4 Permit NMR04A000.

2.0.6.4.015; For a mean monthly flow of 100 cfs. monthly average

3. Aquatic life criteria for metals are expressed as a function of total

4. According to NMAC 20.6.4. E. coil bacteria for Primary Contact - monthly

5. Water quality riterino for metals are based on disorder metals, NMAC

20.6.4.0001 and individual sample results compared to acute toxicity

6. HEAL lab methods 5. Wet 22 Sea Heal indicators. Note: - also method for units

of MPN/100 ml, ab report uses units CrV/100 ml, for this analysis assuming

ND - analyte not detected above the laboratory method detection limit NA - not analyzed Hatching also indicates that parameter was not analyzed

 $National \, recommended \, WQ \, criteria \, Human \, Health \, \\ https://www.epa.gov/wqc/national-recommended-water-quality-criteria-human-health-criteria-table \, description \, for the commended of the commended o$

CMC Sampling Data Sheet

| Site Identification: Angostora Dam | | | | | | | | | | | | | | |
|---|--|---|--------|------------------------------------|-------------------------------|----------------------------|--|--|--|--|--|--|--|--|
| Notes: | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| Full Suite S | Sample Date | and Time: 🤊 | 5/16/2 | 1 1049 | | | | | | | | | | |
| Full Sampl | e Identificati | | | -20210816 | ,) | | | | | | | | | |
| <u> </u> | QC Samples: Duplicate / None QC Sample ID: | | | | | | | | | | | | | |
| QC samples require a DIFFERENT sample time than the environmental sample. QC Sample time: | | | | | | | | | | | | | | |
| • | QC Sample time: | | | | | | | | | | | | | |
| Full Suite C | Collection Po | oint : Ang | astor | a Dam | | | | | | | | | | |
| Full Suite S | ample Volum | e: ~2 \cdot | sgal a | Collection Time Start | : / 00 | 1045 | | | | | | | | |
| Field Parar | neters for ea | ch 2-gallon | grab | | | | | | | | | | | |
| Grab | Time | Temp (°C) | pН | Specific Conductance (µS/cm) | Dissolved Oxygen (mg/L) | Dissolved Oxygen (%) | | | | | | | | |
| 1 | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | |
| 3 | 1030 | 20.92 | 7.83 | 591 | 5.29 | 58.4 | | | | | | | | |
| 4 | 1045 | 20.69 | 7.89 | 581 | 5.37 | 59.2 | | | | | | | | |
| Composite | 1049 | 21.24 | 7.92 | 591 | 6.13 | 68.4 | | | | | | | | |
| Turbid W | ater ⊠©old | or Bon | □Solid | s <i>□</i> Oil/Sheen i | □Foam □Odor | | | | | | | | | |

Analytical -see 2020 COC table

☐Site Photo ☐Sample Photo

Samplers Amy Ewing +
Wike Zbrozek

| <u>CMC</u> | Sampling | Data Sheet |
|------------|-----------------|-------------------|
|------------|-----------------|-------------------|

| Notes: | | 1, | G , (| , () | a Dam) | | - |
|-------------------------------|----------------------------|-------------------------|----------------------|----------------------------------|---|---------------------------------------|-----------------------|
| | | | | | | | - |
| Full Suite S | Sample Date | and Time: | RGNO | th-20210 | 901 | 4 | |
| Full Sampl | e Identificatio | on: | 9/ | 1/2021 | 1005 | V | |
| QC Sample | | ate (None) | · | ample ID: | -1-1 | | |
| QC <i>sample</i> QC Sample | | FFERENI S | ampie time | than the environme | ntal sample. | | |
| | | | 1/7 - | 30 // | σ Λ - · | | 1 |
| | Collection Posample Volume | | | F the end collection Time Start: | , , , , , , , , , , , , , , , , , , , | 1002 | |
| - un ounc o | ample volum | ± 4 ga | <u></u> | | Liid. | 7002 | • |
| Field Paraı | meters for ea | ch 2-gallon | grab | | T | T | 7 |
| | II | | | | | | |
| | | Temp | | Specific Conductance | Dissolved Oxygen | Dissolved Oxygen | |
| Grab | Time | (°C) | pН | Conductance (µS/cm) | Oxygen (mg/L) | Oxygen (%) | (m' |
| Grab 1 | Time 0917 | | | Conductance | Oxygen | Oxygen | OR (m' 149. |
| 1 | 0917 | 21.73 | 8.54 | Conductance (µS/cm) | Oxygen (mg/L) | 0xygen (%) 74.8 |] (m'] 149. |
| | | (°C) | 8.54 | Conductance (µS/cm) | Oxygen (mg/L) | Oxygen (%) |] (m'] 149. |
| 1 | 0917 | 21.73 | 8·54 8·62 | Conductance (µS/cm) | Oxygen (mg/L) | 0xygen (%) 74.8 | 149. 168 |
| 2 | 0917 0932 0947 | 21.73 21.33 21.69 | 8.54 8.62 8.65 | Conductance (μS/cm) 351 305 | Oxygen (mg/L) 6,90 7,23 6,81 | Oxygen (%) 74.8 84.1 78.6 | 149. 168 150 |
| 2 | 0917 | 21.73 21.33 | 8.54 8.62 8.65 | Conductance (μS/cm) 351 305 | Oxygen (mg/L) 6.90 7.23 | 0xygen (%) 74.8 84.1 | 149. 168 |

Analytical -see 2020 COC table

☑Site Photo ☑Sample Photo

clear

Samplers Amy Ewing +

CMC Sampling Data Sheet Mike Zbrozek

Rio Grande at Alameda Site Identification: E. coli Full Suite-Sample Date and Time: Full Sample Identification: RGAlameda-20210901 Duplicate /(None QC Sample ID: QC Samples: QC samples require a DIFFERENT sample time than the environmental sample. QC Sample time: E. coli Downstream side of the Full-Suite Collection Point: Alameda foot bridge across from USC Full Suite Sample Volume: Collection Time Start: //25 (grab) Field Parameters for each 2-gallon grab Dissolved Dissolved Specific Temp Conductance Oxygen Oxygen Grab (%) Time (°C) pН (µS/cm) (mg/L) 1125 23.19 375 83.7 1 8.37 7.06 2 3

Analytical - see 2021 COC table

4

Composite

☑ urbid Water

Site Photo Sample Photo

□Oil/Sheen

□Foam

*□*Odor

□Solids

Mccolor Brown

Samplers Amything and

A Sheet Mike Zbrozek

CMC Sampling Data Sheet

| Site Identifica | ation: P | io Gra | inde | ot Al | ameda | |
|-------------------------|---------------------------------|-------------------|------------|------------------------------------|-------------------------------|----------------------------|
| Notes: | • | | | · | | |
| E. coli | | | | | | |
| Full Suite S | ample Date | and Time: | 9/ | 2/21 | 1030 | |
| Full Sample | dentification | $pn: \mathcal{R}$ | GAla | meda-2 | 02/0902 | |
| QC Samples | s: Duplica | ate None | | ample ID: | | |
| QC samples QC Sample | | FFERENT sa | ample time | than the environme | ntal sample. | |
| E-coli | | | | | | |
| Full-Suite C | ollection Po | int : aff | footbo | ridge, down | nstream s | ide, across |
| Full Suite Sa | ample Volume | e: | · c | ollection Time Start: | — End: | |
| Field Paran | neters for ea | ch 2-gallon | grab | from | usgs st | ream gage |
| Grab | Time | Temp (°C) | рН | Specific Conductance (µS/cm) | Dissolved Oxygen (mg/L) | Dissolved Oxygen (%) |
| 1 | 1030 | 22-14 | 7.72 | 383 | 6.72 | 77.4 |
| 2 | | | | | | |
| 3 | | | | | | |
| 4 | | 1.00 | | | | |
| Composite | | | | | | |
| ⊠Turbid Wa | ater ⊠Colo | Brown | Solid: | s □Oil/Sheen □ | □Foam □Odor_ | |
| Analytical - | see 2021 G E-coli | only | ☑Site Phot | to ⊠ ≲ ample Photo | _ | |

my Flying and Mike Zbrozek

CMC Sampling Data Sheet

| Site Identification: Rio Grande at Isleta diversion |
|---|
| Notes: |
| Full Suite Sample Date and Time: 9/2/21 -0905 0920 |
| Full Sample Identification: RGSouth - 20210902 |
| QC Samples: Duplicate None QC Sample ID: |
| QC samples require a DIFFERENT sample time than the environmental sample. QC Sample time: |

Full Suite Collection Point: Off Liversian Structure, next to E Full Suite Sample Volume: 5 gallons Collection Time Start: 0835 End: 092

Field Parameters for each 2-gallon grab

| Grab | Time | Temp (°C) | рН | Specific Conductance (µS/cm) | Dissolved Oxygen (mg/L) | Dissolved Oxygen (%) |
|-----------|------|--------------|------|------------------------------------|-------------------------------|----------------------------|
| 1 | 0835 | 20.05 | 7.99 | 495 | 5.89 | 64.1 |
| 2 | 0850 | 20.37 | 7.93 | 484 | 7.93 | 83.[|
| 3 | 0905 | 20.66 | 7.97 | 485 | 6.06 | 66.6 |
| 4 | 0920 | 20.68 | 7.95 | 477 | 6.06 | 67.2 |
| Composite | 0928 | 4.21 | 8.11 | 484 | 6.92 | 77.6 |

Afurbid Water AColor Brown

⊈\$olids □Oil/Sheen □Foam minor

 \Box Odor

Analytical - see 2021 COC table

☑Site Photo ☑Sample Photo

bits



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: clients.hallenvironmental.com

August 19, 2021

Patrick Chavez AMAFCA 2600 Prospect Ave NE Albuquerque, NM 87107 TEL: (505) 884-2215

FAX:

8/16/2021 CMC Sample at Rio Grande North. E. coli results for the pre-storm. Storm did not become a qualifying event.

RE: CMC OrderNo.: 2108836

Dear Patrick Chavez:

Hall Environmental Analysis Laboratory received 1 sample(s) on 8/16/2021 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman

Laboratory Manager

andy

4901 Hawkins NE

Albuquerque, NM 87109

Field Parameters Rio Grande North-

Temp = 21.24 °C

pH = 7.92

Conductivity (uS/cm=umho/cm) = 591

Dissolved Oxygen (mg/L) = 6.13

Lab Order **2108836**

Date Reported: 8/19/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AMAFCA Client Sample ID: RG North-20210816

 Project:
 CMC
 Collection Date: 8/16/2021 10:49:00 AM

 Lab ID:
 2108836-001
 Matrix: AQUEOUS
 Received Date: 8/16/2021 12:49:00 PM

Analyses Result RL Qual Units DF Date Analyzed

 SM 9223B FECAL INDICATOR: E. COLI MPN
 Analyst: dms

 E. Coli
 6867
 10.00
 MPN/100 10
 8/17/2021 5:44:00 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 1 of 1



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: clients.hallenvironmental.com

Sample Log-In Check List

| Client Name: AMAFCA | Work Order Number: 2108836 | | RcptNo: 1 |
|--|--|--|--|
| Received By: Tracy Casarrubias 8 | 3/16/2021 12:49:00 PM | | |
| Completed By: Sean Livingston 8 | 8/16/2021 4:14:27 PM | < / | not |
| Reviewed By: Boo/Enumeration In E | 116/21 @16:40 | JC | 1781- |
| Chain of Custody | | | |
| 1. Is Chain of Custody complete? | Yes 🗸 | No 🗌 | Not Present |
| 2. How was the sample delivered? | Client | | |
| Log In | | | |
| 3. Was an attempt made to cool the samples? | Yes 🗸 | No 🗌 | NA 🗆 |
| | _ | | |
| 4. Were all samples received at a temperature of | | No 🗸 | NA 🗆 |
| 5. Sample(a) in account (1) | Samples were collected to | | d chilled. |
| 5. Sample(s) in proper container(s)? | Yes 🗸 | No 📙 | |
| 6. Sufficient sample volume for indicated test(s)? | Yes 🗸 | No 🗌 | |
| 7. Are samples (except VOA and ONG) properly p | reserved? Yes | No 🗌 | |
| 8. Was preservative added to bottles? | Yes | No 🗸 | NA 🗌 |
| 9. Received at least 1 vial with headspace <1/4" fo | or AQ VOA? Yes | No 🗌 | NA 🗸 |
| Were any sample containers received broken? | Yes | No 🗸 | 1412 |
| | 100 | | # of preserved bottles checked |
| 1. Does paperwork match bottle labels? | Yes 🗹 | No 🗌 | for pH: |
| (Note discrepancies on chain of custody) | _ | | (<2 or >12 unless noted |
| 2. Are matrices correctly identified on Chain of Cus | | No 🗌 | Adjusted? |
| 3. Is it clear what analyses were requested? | Yes 🗸 | No 🗌 | |
| 4. Were all holding times able to be met? (If no, notify customer for authorization.) | Yes 🗸 | No 🗔 | Checked by: |
| pecial Handling (if applicable) | | | BOD/ Enumeration: The 8: |
| 15. Was client notified of all discrepancies with this | order? Yes | No 🗌 | NA 🗹 |
| Person Notified: | Date: | energe menoren er en | |
| By Whom: | Via: ☐ eMail ☐ | Phone Fax | In Person |
| Regarding: | | | |
| Client Instructions: | WAS STORED AND THE RESIDENCE OF THE CONTRACT OF THE PARTY | | THE STREET SHEET S |
| 6. Additional remarks: | | | |
| | | | |
| 7. Cooler Information Cooler No Temp °C Condition Seal | Intact Seal No Seal Date | Signed By | |
| 1 23.8 Good | Ocar Date | oigned by | |

| Chai | in-of-C | ustody Record | Turn-Around | | | | | | | | | | | | | | | | | |
|---------------------------|------------|-----------------------------|-----------------------------|--------------------|----------------------------|--|----------------------------|----------------------|--------------------|----------|---------------|-----------------------|------------|-----------------|---------------------------------|----------|----------|-----|--------|----------|
| Client: A | MAFO | LA | │ | l □ Rush | 1 | HALL ENVIRONMENTAL ANALYSIS LABORATORY | | | | | | | | | | | | | | |
| | | | Project Name | | | | | | | | | | | | | | KA | |)K | r |
| Mailing Addre | ess: | | CN | 0 | | | | | | | | | | | tal.co | | | | | |
| | | | Project #: | • | | 4901 Hawkins NE - Albuquerque, NM 87109 | | | | | | | | | | | | | | |
| DI | | | - | | | Tel. 505-345-3975 Fax 505-345-4107 | | | | | | Garage Control | | ALC: DE | | | | | | |
| Phone #: | W \ O : | | 5 | | | Analysis Request | | | | | | | | | | | | | | |
| email of Fax | #:punav | ez@amafca.org | Project Manager: | | | | | ,, | | | | SO4 | | | ent) | | | | | |
| QA/QC Packa ☐ Standard | ge: | ☐ Level 4 (Full Validation) | Patrick Charez | | | | | PCB's | | 8270SIMS | | PO ₄ , | | | Total Coliform (Present/Absent) | | | | | |
| Accreditation | : | ompliance | Patrick Chavez Sampler: | | | | | | = | 270 | | NO ₂ , I | | | sen | | | | | |
| □ NELAC | □ Othe | | On Ice: ✓ Yes □ No | | | | 0 | s/80 | 904 | 5 | ,, | | | (A) | Pre | | | | | |
| ☐ EDD (Type | e) | | # of Coolers: | | | MTBE | 9 | ide | pc 2 | 310 | stals | Š | | > | m. | | | | | |
| | | | Cooler Temp | (Including CF): 24 | 0-0.2-23.8 (°C) | Σ | 15D | estic | leth | by 8310 | 3 Me | Br, NO ₃ , | OA | emi | olifo | | | | | |
| | | | Container | Preservative | HEAL No. | $ \dot{x} $ | 1:80 | 1 P | <u>≥</u> | d Sh | | | 5 | S) (S | ŏ | | | | | |
| Date Time | Matrix | Sample Name | | Type | 2108836 | BTEX/ | TPH:8015D(GRO / DRO / MRO) | 8081 Pesticides/8082 | EDB (Method 504.1) | PAHs | RCRA 8 Metals | CI, FI, | 8260 (VOA) | 8270 (Semi-VOA) | Tota | | 111 | | | |
| 8.16.21 10 | 49 AQ | RGNorth-20210811 | bottle | 5 | 100 | | | 30 | P | | 4 | | ch | 16 | 4 | | \neg | | \top | \top |
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| Date: Time: | Relinquish | ed by: | Received by: | _ Via: | Date Time | Rem | arks | | | | | | | , | | | | 1 | | Щ |
| 116/2 /24 | | 2/1 | Received by: Via: Date Time | | | Remarks: Per chad - only analyze for enumeration. of 8/17/21 | | | | | | | | | | | | | | |
| Date: Time: | Relinquish | ed by: | Received by: | Vla: | 8.16.21 12:49 Date Time | | | | | | | (| C. C | ol | en | ome | sati | Um. | 1 1 | |
| | | | | | | | | | | | | | | | | | | 9 | 18/1 | 7/21 |
| / | | | | | | | | | | | | | | | | | | / | | |



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: clients.hallenvironmental.com

September 07, 2021

Patrick Chavez
AMAFCA
2600 Prospect Ave NE
Albuquerque, NM 87107
TEL: (505) 884-2215

FAX:

9/1/2021 CMC Sample at Rio Grande North and Alameda. E. coli results for the pre-storm. Storm did become a qualifying event.

RE: CMC OrderNo.: 2109083

Dear Patrick Chavez:

Hall Environmental Analysis Laboratory received 2 sample(s) on 9/1/2021 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman

Laboratory Manager

andy

4901 Hawkins NE

Albuquerque, NM 87109

Field Parameters

Rio Grande North-

Temp = 21.71 °C

pH = 8.63

Conductivity (uS/cm=umho/cm) = 315

Dissolved Oxygen (mg/L) = 6.98

Alameda-

Temp = 23.19 °C

pH = 8.37

Conductivity (uS/cm=umho/cm) = 375

Dissolved Oxygen (mg/L) = 7.06

Received Date: 9/1/2021 4:10:00 PM

Lab Order 2109083

Date Reported: 9/7/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AMAFCA Client Sample ID: RG North- 20210901

Project: CMC **Collection Date:** 9/1/2021 10:05:00 AM Matrix: AQUEOUS

Analyses Result **RL Qual Units** DF **Date Analyzed** SM 9223B FECAL INDICATOR: E. COLI MPN Analyst: dms

E. Coli 183 10.00 MPN/100 10 9/2/2021 5:05:00 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

Lab ID:

2109083-001

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix

- Analyte detected in the associated Method Blank
- Ε Value above quantitation range
- J Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Limit

Lab Order **2109083**

Date Reported: 9/7/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AMAFCA Client Sample ID: RG Alameda- 20210901

 Project:
 CMC
 Collection Date: 9/1/2021 11:25:00 AM

 Lab ID:
 2109083-002
 Matrix: AQUEOUS
 Received Date: 9/1/2021 4:10:00 PM

 Analyses
 Result
 RL Qual Units
 DF
 Date Analyzed

 SM 9223B FECAL INDICATOR: E. COLI MPN
 Analyst: dms

 E. Coli
 20
 10.00
 MPN/100 10
 9/2/2021 5:05:00 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 2 of 2



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: clients.hallenvironmental.com

Sample Log-In Check List

| Client Name: AMAFCA | Work Order Number | er: 2109083 | | RcptNo: 1 |
|--|--|--|--|--|
| Received By: Sean Livingston | 9/1/2021 4:10:00 PM | 1 | Salas | g fe_ |
| Completed By: Isaiah Ortiz | 9/1/2021 4:18:41 PM | 1 | Salza In On | 4 |
| Reviewed By: JRalilzi @ | 16.125 | | | |
| Chain of Custody | | | | |
| Is Chain of Custody complete? | | Yes 🗸 | No 🗌 | Not Present |
| 2. How was the sample delivered? | | Client | | |
| <u>Log In</u> | | | | |
| Was an attempt made to cool the sample | es? | Yes 🗸 | No 🗌 | NA 🗌 |
| 4. Were all samples received at a temperatu | re of >0° C to 6.0°C | Yes 🗸 | No 🗌 | NA 🗆 |
| 5. Sample(s) in proper container(s)? | | Yes 🗸 | No 🗌 | |
| 6. Sufficient sample volume for indicated tes | st(s)? | Yes 🗸 | No 🗌 | |
| 7. Are samples (except VOA and ONG) prop | perly preserved? | Yes 🗸 | No 🗌 | |
| 8. Was preservative added to bottles? | | Yes 🗌 | No 🗸 | NA 🗌 |
| 9. Received at least 1 vial with headspace < | 1/4" for AQ VOA? | Yes | No 🗌 | NA 🗹 |
| 10. Were any sample containers received bro | oken? | Yes | No 🗸 | |
| | | | | f of preserved pottles checked |
| 11. Does paperwork match bottle labels? | | Yes 🗸 | proming. | or pH: |
| (Note discrepancies on chain of custody) | | | 🖂 | (<2 or >12 unless noted) Adjusted? |
| 12. Are matrices correctly identified on Chain | of Custody? | Yes 🗸 | No 🔲 | Adjustea : |
| 13. Is it clear what analyses were requested? 14. Were all holding times able to be met? | | Yes 🗸 | No 🗌 | Checked by: SPA 9.1 |
| (If no, notify customer for authorization.) | | Yes 🗸 | No 🗌 | Checked by. |
| Special Handling (if applicable) | | | , | |
| 15. Was client notified of all discrepancies wi | th this order? | Yes | No 🗌 | NA 🗸 |
| Person Notified: | Date: | dia 1970, periodi di dari 1920, periodi anaga kata | STANDARD CONTRACTOR CLUSTER | |
| By Whom: | Via: | eMail | Phone Fax | In Person |
| Regarding: | CAPADOS BARYONAS ESTA BARRONAS ANA LISTA BARRONA | PERSONAL PROCESSOR CONTRACTOR STORY | PERSONAL PROPERTY OF THE PROPERTY OF THE PERSONAL PROPERTY OF THE PERSO | ACCUPACION DE CONTRA DE CO |
| Client Instructions: | | WARREST ADMINISTRATION OF THE PARTY OF | this facts and titles with seasons travers except that a 50 of except | The THE SE HELLS CHEET PRODUCTION |
| 16. Additional remarks: | | | | |
| 17. Cooler Information Cooler No Temp °C Condition 1 3.9 Good | Seal Intact Seal No | Seal Date | Signed By | |

| | Chain | -of-C | ustody Record | Turn-Around Time: | | | | | | | | | | | | | | | | | |
|--------------|-----------|-------------|-----------------------------|--|---------------------|--------|----------------|------------------------------------|---|----------------------|--------------------|--------------------------|-----------------|-------------------|------------|---|-----------|----------|--------|--|----|
| Client: | AN | 1AFC | LA . | Standard | d □ Rusi | h | | | 390 | | | | | | | | | ME | | | |
| | | | | Project Nam | | | | | | | A | | ML, | YS. | LS | LA | BC | RA | TO | RY | ă. |
| Mailing | Addres | e. | | - | MC | | | www.hallenvironmental.com | | | | | | | | | | | | | |
| - Iviaiii ig | , Address | J. | | , | | | | | 4901 Hawkins NE - Albuquerque, NM 87109 | | | | | | | | | | | | |
| | | | | Project #: | | | | Tel. 505-345-3975 Fax 505-345-4107 | | | | | | | | | | | | | |
| Phone | #: | | | | | | | | Analysis Request | | | | | | | | | | | | |
| email c | or Fax#: | pche | avez@amafca.org | Project Manager: | | | | _ | <u> </u> | | | ALL DESCRIPTIONS | STREET, STORY | STREET, STREET | | | ~ | | | The same of the sa | |
| QA/QC | Package | 1 | , | Patrick Chavez | | | | | MRC | S'S | | 2 | | , SO ₄ | | | 300 | | | | |
| Star | ndard | | ☐ Level 4 (Full Validation) | 1 all | The Ch | 19Vez | | s's (8021) | TPH:8015D(GRO / DRO / MRO) | PCB's | | PAHs by 8310 or 8270SIMS | | PO⁴, | | oz / U (Seffill-VOA) Total Coliform (Present/Absent) | enumerato | | | | |
| Accred | | | ompliance | Sampler: A.Ewing -DBS+A On Ice: □Yes □ No | | | | TMB's | / DF | 8081 Pesticides/8082 | 1.1 | 827 | | NO ₂ , | | 7 | 252 | | | | |
| | (Type) | □ Other | | # of Coolers: | | ○ □ No | | | 3RO | les/8 | 207 | 0 or | constitution of | | 5 | 5 6 | - 1 | | | | |
| | (1)(0) | | | Control of the Contro | O(including CF): U. | 7-03: | 2 a (°C) | MTBE |) (G | ticio | hod | 831 | /lets | SON S | 2 3 | - L | () | | | | |
| | | | | - Court Tomp | (moldang of). | | 3((0) | _ | 015 | Pes | Met | þ | ٥ | , B | | i dei | 3 | | | | |
| Date | Time | Matrix | Cample Name | Container | Preservative | HE | AL No. 1083 | BTEX | F.H. | 981 | EDB (Method 504.1) | ۸Hs | KCKA 8 Metals | CI, F, Br, N | 00. | Total Coliform (Pr | Ü | | | | |
| | Time | Matrix | Sample Name | Type and # | Туре | 410 | | B. | Ë | 8 | 回 | <u>a</u> | 2 2 | 5 8 | δ <u>δ</u> | 8 F | 2 | \vdash | | \sqcup | _ |
| 9/1/21 | | AQ | RGNorth-20210901 | | | | 001 | | | | | | | | | | / | | | | |
| 1/1/21 | 1125 | AQ | RGAlameda-2021098 | 1 / | | | 200 | | | | | | | | | | V | | | | |
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| 7/1/2 | 1/6/0 | J-11 | inthing_ | Sa | cns q | 15/1/ | 16:10 | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | | | | | | | | |



October 13, 2021

Patrick Chavez

AMAFCA

2600 Prospect Ave NE

Albuquerque, NM 87107

TEL: (505) 884-2215

FAX

RE: CMC OrderNo.: 2109132

Dear Patrick Chavez:

Hall Environmental Analysis Laboratory received 6 sample(s) on 9/2/2021 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425

Sincerely,

Andy Freeman

Laboratory Manager

Only

4901 Hawkins NE

Albuquerque, NM 87109

Field Parameters

Rio Grande North-

Temp = 21.71 °C

pH = 8.63

Conductivity (uS/cm=umho/cm) = 315

Hall Environmental Analysis Laboratory

TEL: 505-345-3975 FAX: 505-345-4107

Website: clients.hallenvironmental.com

9/2/2021 CMC Sample at Rio

coli), and Rio Grand South.

Grande North, Alameda (only E.

4901 Hawkins NE

Albuquerque, NM 87109

Dissolved Oxygen (mg/L) = 6.98

Rio Grande South-

Temp = 21.21 °C

pH = 8.11

Conductivity (uS/cm=umho/cm) = 484

Dissolved Oxygen (mg/L) = 6.92

Alameda-

Temp = 22.14 °C

pH = 7.72

|Conductivity (uS/cm=umho/cm) = 383

Dissolved Oxygen (mg/L) = 6.72



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: clients.hallenvironmental.com

Case Narrative

WO#: **2109132**Date: **10/13/2021**

CLIENT: AMAFCA **Project:** CMC

Analytical Notes Regarding EPA Method 8081:

The method blank and sample RG South-20210902 were not spiked with surrogates. The samples were reextracted, outside of the holding time to confirm the original data. The samples are reported from the original extraction and analysis.

Analytical Notes Regarding BOD:

The method blank(s) had a DO depletion >0.2mg/L.

Lab Order 2109132

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 10/13/2021

CLIENT: AMAFCA
Client Sample ID: RG North-20210901
Project: CMC
Collection Date: 9/1/2021 10:05:00 AM

Lab ID: 2109132-001 **Matrix:** AQUEOUS **Received Date:** 9/2/2021 12:17:00 PM

| Analyses | Result | MDL | PQL | Qual | Units | DF | Date Analyzed B | atch ID |
|--|-------------------|----------------|--------------|-----------|-------------------------|-----|-----------------------|---------|
| EPA METHOD 8081: PESTICIDES | | | | | | | Analyst: LSB | |
| Dieldrin | ND | 0.040 | 0.10 | | μg/L | 1 | 9/17/2021 1:57:29 PM | 62459 |
| Surr: Decachlorobiphenyl | 89.1 | 0 | 41.7-129 | | %Rec | 1 | 9/17/2021 1:57:29 PM | 62459 |
| Surr: Tetrachloro-m-xylene | 58.7 | 0 | 31.8-88.5 | | %Rec | 1 | 9/17/2021 1:57:29 PM | 62459 |
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: LRN | |
| Nitrate+Nitrite as N | ND | 0.11 | 1.0 | | mg/L | 5 | 9/3/2021 4:14:05 PM | R81067 |
| EPA METHOD 200.7: METALS | | | | | | | Analyst: ELS | |
| Calcium | 51 | 0.11 | 1.0 | | mg/L | 1 | 9/14/2021 12:30:15 PM | 62544 |
| Magnesium | 8.7 | 0.067 | 1.0 | | mg/L | 1 | 9/14/2021 12:30:15 PM | 62544 |
| EPA 200.8: DISSOLVED METALS | | | | | | | Analyst: bcv | |
| Copper | 0.00084 | 0.00037 | 0.0010 | J | mg/L | 1 | 9/18/2021 6:25:56 PM | A81374 |
| Lead | 0.000065 | 0.000057 | 0.00050 | J | mg/L | 1 | 9/18/2021 6:25:56 PM | A81374 |
| SM2340B: HARDNESS | | | | | | | Analyst: ELS | |
| Hardness as CaCO3 | 160 | 2.5 | 6.6 | | mg/L | 1 | 9/14/2021 8:50:00 AM | R81263 |
| EPA METHOD 1664B | | | | | | | Analyst: dms | |
| N-Hexane Extractable Material | ND | 4.10 | 10.2 | | mg/L | 1 | 9/8/2021 12:03:00 PM | 62408 |
| SM5210B: BOD | | | | | | | Analyst: AG | |
| Biochemical Oxygen Demand | 2.7 | 2.0 | 2.0 | RE | mg/L | 1 | 9/8/2021 4:15:00 PM | 62380 |
| NOTES: | | | | | | | | |
| R- RPD between dilutions >30%. E- Estima | ated value due to | final read tim | ne exceeding | g +/-6 ho | ur read tim | ie. | | |
| SM 4500 NH3: AMMONIA | | | | | | | Analyst: CJS | |
| Nitrogen, Ammonia | 0.42 | 0.42 | 1.0 | J | mg/L | 1 | 9/16/2021 2:40:00 PM | R81339 |
| SM4500-H+B / 9040C: PH | | | | | | | Analyst: CAS | |
| рН | 8.54 | | | H* | pH units | 1 | 9/8/2021 9:52:08 PM | R81133 |
| EPA METHOD 365.1: TOTAL PHOSPH | OROUS | | | | | | Analyst: CJS | |
| Phosphorus, Total (As P) | 0.29 | 0.050 | 0.050 | D | mg/L | 1 | 9/15/2021 1:39:00 PM | 62548 |
| SM2540C MOD: TOTAL DISSOLVED S | OLIDS | | | | | | Analyst: KS | |
| Total Dissolved Solids | 230 | 100 | 100 | D | mg/L | 1 | 9/10/2021 10:00:00 AM | 62453 |
| SM 4500 NORG C: TKN | | | | | - | | Analyst: EKM | |
| Nitrogen, Kjeldahl, Total | 4.1 | 0.50 | 1.0 | | mg/L | 1 | 9/17/2021 1:45:00 PM | 62630 |
| SM 2540D: TSS | | 0.00 | | | ··· <i>ə</i> / – | - | Analyst: KS | |
| Suspended Solids | 130 | 4.0 | 4.0 | | mg/L | 1 | 9/9/2021 1:39:00 PM | 62455 |
| Suspended Solids | 130 | 4.0 | 4.0 | | IIIg/∟ | 1 | 3/3/2021 1.33.00 FIVI | 02400 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 2 of 19

Lab Order **2109132**

Date Reported: 10/13/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AMAFCA Client Sample ID: RG North-20210901

Project: CMC Collection Date: 9/1/2021 10:05:00 AM

Lab ID: 2109132-002 **Matrix:** AQUEOUS **Received Date:** 9/2/2021 12:17:00 PM

Analyses Result MDL PQL Qual Units DF Date Analyzed Batch ID

EPA METHOD 365.1: TOTAL PHOSPHOROUS Analyst: CJS

Phosphorus, Total (As P) 0.15 0.050 0.050 D mg/L 1 9/15/2021 1:40:00 PM 62548

dissolved phosphorous

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Lab Order 2109132

Date Reported: 10/13/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AMAFCA

Project: CMC

Client Sample ID: RG South-20210902

Collection Date: 9/2/2021 9:20:00 AM

Lab ID: 2109132-003 **Matrix:** AQUEOUS **Received Date:** 9/2/2021 12:17:00 PM

| Analyses | Result | MDL | PQL | Qual | Units | DF | Date Analyzed B | atch ID |
|----------------------------------|----------|---------------|------------|------|--------------|----|--|---------|
| EPA METHOD 8081: PESTICIDES | | | | | | | Analyst: LSB | |
| Dieldrin | ND | 0.040 | 0.10 | | μg/L | 1 | 9/17/2021 2:23:56 PM | 62459 |
| Surr: Decachlorobiphenyl | 0 | 0 | 41.7-129 | S | %Rec | 1 | 9/17/2021 2:23:56 PM | 62459 |
| Surr: Tetrachloro-m-xylene | 0 | 0 | 31.8-88.5 | S | %Rec | 1 | 9/17/2021 2:23:56 PM | 62459 |
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: LRN | |
| Nitrogen, Nitrite (As N) | ND | 0.073 | 0.50 | | mg/L | 5 | 9/3/2021 3:48:20 PM | R81067 |
| Nitrogen, Nitrate (As N) | 1.8 | 0.10 | 0.50 | | mg/L | 5 | 9/3/2021 3:48:20 PM | R81067 |
| EPA METHOD 200.7: METALS | | | | | _ | | Analyst: ELS | |
| Calcium | 86 19 | 0.11 0.067 | 1.0 1.0 | | mg/L mg/L | 1 | 9/14/2021 12:33:10 PM 9/14/2021 12:33:10 PM | |
| Magnesium | 19 | 0.007 | 1.0 | | IIIg/∟ | ' | | 02344 |
| EPA 200.8: DISSOLVED METALS | 0.0015 | 0.00037 | 0.0010 | | | 1 | Analyst: bcv 9/18/2021 6:30:41 PM | A81374 |
| Copper Lead | 0.0015 | 0.00037 | 0.0010 | J | mg/L mg/L | 1 | 9/18/2021 6:30:41 PM | A81374 |
| SM2340B: HARDNESS | 0.00002 | 0.00000. | 0.0000 | | 9, = | • | Analyst: ELS | , 10.0. |
| Hardness as CaCO3 | 290 | 2.5 | 6.6 | | mg/L | 1 | 9/14/2021 8:50:00 AM | R81263 |
| EPA METHOD 1664B | | | | | Ü | | Analyst: dms | |
| N-Hexane Extractable Material | ND | 3.99 | 9.89 | | mg/L | 1 | 9/8/2021 12:03:00 PM | 62408 |
| SM5210B: BOD | | | | | | | Analyst: AG | |
| Biochemical Oxygen Demand | 4.9 | 2.0 | 2.0 | | mg/L | 1 | 9/8/2021 4:15:00 PM | 62380 |
| SM 9223B FECAL INDICATOR: E. COL | _I MPN | | | | | | Analyst: SMS | |
| E. Coli | 4884 | 10.00 | 10.00 | | MPN/100 | 10 | 9/3/2021 5:45:00 PM | 62378 |
| SM 4500 NH3: AMMONIA | | | | | | | Analyst: CJS | |
| Nitrogen, Ammonia | ND | 0.42 | 1.0 | | mg/L | 1 | 9/16/2021 2:40:00 PM | R81339 |
| SM4500-H+B / 9040C: PH | | | | | | | Analyst: CAS | |
| рН | 8.18 | | | Н | pH units | 1 | 9/8/2021 9:56:07 PM | R81133 |
| EPA METHOD 365.1: TOTAL PHOSPH | OROUS | | | | | | Analyst: CJS | |
| Phosphorus, Total (As P) | 1.3 | 0.050 | 0.050 | D | mg/L | 1 | 9/15/2021 1:42:00 PM | 62548 |
| SM2540C MOD: TOTAL DISSOLVED S | SOLIDS | | | | | | Analyst: KS | |
| Total Dissolved Solids | 330 | 200 | 200 | D | mg/L | 1 | 9/10/2021 10:00:00 AM | 62453 |
| SM 4500 NORG C: TKN | | | | | | | Analyst: EKM | |
| Nitrogen, Kjeldahl, Total | 2.0 | 1.0 | 2.0 | JD | mg/L | 1 | 9/17/2021 1:45:00 PM | 62630 |
| SM 2540D: TSS | | | | | | | Analyst: KS | |
| Suspended Solids | 790 | 40 | 40 | D | mg/L | 1 | 9/9/2021 1:39:00 PM | 62455 |
| | | | | | | | | |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Lab Order **2109132**

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 10/13/2021

CLIENT: AMAFCA Client Sample ID: RG South-20210902

 Project:
 CMC
 Collection Date: 9/2/2021 9:20:00 AM

 Lab ID:
 2109132-004
 Matrix: AQUEOUS
 Received Date: 9/2/2021 12:17:00 PM

Analyses Result MDL PQL Qual Units DF Date Analyzed Batch ID

EPA METHOD 365.1: TOTAL PHOSPHOROUS Analyst: CJS

Phosphorus, Total (As P) 1.4 0.050 0.050 D mg/L 1 9/15/2021 1:43:00 PM 62548

dissolved phosphorous

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 5 of 19

Lab Order 2109132

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 10/13/2021

CLIENT: AMAFCA Client Sample ID: RG Alameda-20210902

 Project:
 CMC
 Collection Date: 9/2/2021 10:30:00 AM

 Lab ID:
 2109132-005
 Matrix: AQUEOUS
 Received Date: 9/2/2021 12:17:00 PM

Analyses Result MDL PQL Qual Units DF Date Analyzed Batch ID

SM 9223B FECAL INDICATOR: E. COLI MPN Analyst: SMS

E. Coli 554 10.00 10.00 MPN/100 10 9/3/2021 5:45:00 PM 62378

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Anatek Labs, Inc.

1282 Alturas Drive - Moscow, ID 83843 - (208) 883-2839 - Fax (208) 8829246 - email moscow@anateklabs.com 504 E Sprague Ste. D - Spokane, WA 99202 - (509) 838-3999 - fax (509) 838-4433 - email spokane@anateklabs.com

Client: Hall Environmental Analysis Lab

Address: 4901 Hawkins NE Suite D

Albuquerque, NM 87109

Attn: Andy Freeman

Work Order:

MBI0301

Project:

MDL Projects

Reported:

9/21/2021 11:03

Analytical Results Report

Sample Location: 2109132-001A (RG North-20210901)

Lab/Sample Number: MBI0301-01 Collect Date: 09/01/21 10:05

Date Received: 09/08/21 12:41 Collected By:

Matrix: Water

| Analyte | Result | Units | MDL | PQL | Analyzed | Analyst | Method | Qualifier |
|-----------------------------------|--------|-------|--------|------|---------------|---------|-----------|-----------|
| Volatiles | | | | | | | | |
| Tetrahydrofuran | ND | ug/L | 0.500 | 2.50 | 9/10/21 14:05 | TEC | EPA 8260D | U |
| Surrogate: 1,2-Dichlorobenzene-d4 | 104% | | 70-130 | ' | 9/10/21 14:05 | TEC | EPA 8260D | |
| Surrogate: 4-Bromofluorobenzene | 98.8% | | 70-130 | | 9/10/21 14:05 | TEC | EPA 8260D | |
| Surrogate: Toluene-d8 | 94.9% | | 70-130 | | 9/10/21 14:05 | TEC | EPA 8260D | |

Analytical Results Report (Continued)

2109132-001K (RG North-20210901) Sample Location:

MBI0301-02 09/01/21 10:05 Lab/Sample Number: Collect Date:

Date Received: 09/08/21 12:41 Collected By:

Matrix: Water

| Analyte | Result | Units | MDL | PQL | Analyzed | Analyst | Method | Qualifier |
|---------------------------------|--------|-------|--------|------|---------------|---------|-----------|-----------|
| Semivolatiles | | | | | | | | |
| Benzidine | ND | ug/L | 0.833 | 1.67 | 9/13/21 23:44 | MAH | EPA 8270D | |
| Benzo[a]anthracene | ND | ug/L | 0.333 | 1.67 | 9/13/21 23:44 | MAH | EPA 8270D | |
| Benzo[a]pyrene | ND | ug/L | 0.333 | 1.67 | 9/13/21 23:44 | MAH | EPA 8270D | |
| Benzo[b]fluoranthene | ND | ug/L | 0.333 | 1.67 | 9/13/21 23:44 | MAH | EPA 8270D | |
| Benzo[k]fluoranthene | ND | ug/L | 0.333 | 1.67 | 9/13/21 23:44 | MAH | EPA 8270D | |
| Chrysene | ND | ug/L | 0.333 | 1.67 | 9/13/21 23:44 | MAH | EPA 8270D | |
| Di (2-ethylhexyl) phthalate | ND | ug/L | 0.667 | 1.67 | 9/13/21 23:44 | MAH | EPA 8270D | |
| Dibenz(a,h)anthracene | ND | ug/L | 0.333 | 1.67 | 9/13/21 23:44 | MAH | EPA 8270D | |
| Dibenzofuran | ND | ug/L | 0.333 | 1.67 | 9/13/21 23:44 | MAH | EPA 8270D | |
| Indeno(1,2,3-cd)pyrene | ND | ug/L | 0.333 | 1.67 | 9/13/21 23:44 | MAH | EPA 8270D | |
| Pentachlorophenol | ND | ug/L | 0.667 | 1.67 | 9/13/21 23:44 | MAH | EPA 8270D | |
| Surrogate: 2,4,6-Tribromophenol | 94.0% | | 48-120 | , | 9/13/21 23:44 | МАН | EPA 8270D | |
| Surrogate: 2-Fluorobiphenyl | 107% | | 57-120 | , | 9/13/21 23:44 | МАН | EPA 8270D | |
| Surrogate: 2-Fluorophenol | 64.6% | | 37-110 | , | 9/13/21 23:44 | МАН | EPA 8270D | |
| Surrogate: Nitrobenzene-d5 | 81.0% | | 65-110 | , | 9/13/21 23:44 | МАН | EPA 8270D | |
| Surrogate: Phenol-2,3,4,5,6-d5 | 85.3% | | 51-112 | , | 9/13/21 23:44 | МАН | EPA 8270D | |
| Surrogate: Terphenyl-d14 | 102% | | 57-133 | , | 9/13/21 23:44 | MAH | EPA 8270D | |

Analytical Results Report (Continued)

Sample Location: 2109132-003A (RG South-20210902)

MBI0301-03 09/02/21 09:20 Lab/Sample Number: Collect Date:

Date Received: 09/08/21 12:41 Collected By:

Matrix: Water

| Analyte | Result | Units | MDL | PQL | Analyzed | Analyst | Method | Qualifier |
|-----------------------------------|--------|-------|--------|------|---------------|---------|-----------|-----------|
| Volatiles | | | | | | | | |
| Tetrahydrofuran | ND | ug/L | 0.500 | 2.50 | 9/10/21 14:34 | TEC | EPA 8260D | U |
| Surrogate: 1,2-Dichlorobenzene-d4 | 104% | | 70-130 | | 9/10/21 14:34 | TEC | EPA 8260D | |
| Surrogate: 4-Bromofluorobenzene | 99.1% | | 70-130 | | 9/10/21 14:34 | TEC | EPA 8260D | |
| Surrogate: Toluene-d8 | 95.2% | | 70-130 | | 9/10/21 14:34 | TEC | EPA 8260D | |

Analytical Results Report (Continued)

Sample Location: 2109132-003K (RG South-20210902)

MBI0301-04 Collect Date: 09/02/21 09:20 Lab/Sample Number:

Date Received: 09/08/21 12:41 Collected By:

Matrix: Water

| Analyte | Result | Units | MDL | PQL | Analyzed | Analyst | Method | Qualifier |
|---------------------------------|--------|-------|--------|------|--------------|---------|-----------|-----------|
| Semivolatiles | | | | | | | | |
| Benzidine | ND | ug/L | 1.25 | 2.50 | 9/14/21 0:12 | MAH | EPA 8270D | |
| Benzo[a]anthracene | ND | ug/L | 0.500 | 2.50 | 9/14/21 0:12 | MAH | EPA 8270D | |
| Benzo[a]pyrene | ND | ug/L | 0.500 | 2.50 | 9/14/21 0:12 | MAH | EPA 8270D | |
| Benzo[b]fluoranthene | ND | ug/L | 0.500 | 2.50 | 9/14/21 0:12 | MAH | EPA 8270D | |
| Benzo[k]fluoranthene | ND | ug/L | 0.500 | 2.50 | 9/14/21 0:12 | MAH | EPA 8270D | |
| Chrysene | ND | ug/L | 0.500 | 2.50 | 9/14/21 0:12 | MAH | EPA 8270D | |
| Di (2-ethylhexyl) phthalate | ND | ug/L | 1.00 | 2.50 | 9/14/21 0:12 | MAH | EPA 8270D | |
| Dibenz(a,h)anthracene | ND | ug/L | 0.500 | 2.50 | 9/14/21 0:12 | MAH | EPA 8270D | |
| Dibenzofuran | ND | ug/L | 0.500 | 2.50 | 9/14/21 0:12 | MAH | EPA 8270D | |
| Indeno(1,2,3-cd)pyrene | ND | ug/L | 0.500 | 2.50 | 9/14/21 0:12 | MAH | EPA 8270D | |
| Pentachlorophenol | ND | ug/L | 1.00 | 2.50 | 9/14/21 0:12 | MAH | EPA 8270D | |
| Surrogate: 2,4,6-Tribromophenol | 101% | | 48-120 | , | 9/14/21 0:12 | МАН | EPA 8270D | |
| Surrogate: 2-Fluorobiphenyl | 110% | | 57-120 | , | 9/14/21 0:12 | МАН | EPA 8270D | |
| Surrogate: 2-Fluorophenol | 64.4% | | 37-110 | | 9/14/21 0:12 | МАН | EPA 8270D | |
| Surrogate: Nitrobenzene-d5 | 81.9% | | 65-110 | | 9/14/21 0:12 | МАН | EPA 8270D | |
| Surrogate: Phenol-2,3,4,5,6-d5 | 83.3% | | 51-112 | , | 9/14/21 0:12 | МАН | EPA 8270D | |
| Surrogate: Terphenyl-d14 | 96.5% | | 57-133 | • | 9/14/21 0:12 | МАН | EPA 8270D | |

Anatek Labs, Inc.

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Analytical Results Report

(Continued)

Sample Location: 2109132-006A (Trip Blank)

Lab/Sample Number: MBI0301-05 Collect Date: 09/02/21 00:00

Date Received: 09/08/21 12:41 Collected By:

Matrix: Water

| Analyte | Result | Units | MDL | PQL | Analyzed | Analyst | Method | Qualifier |
|-----------------------------------|--------|-------|--------|-------|---------------|---------|-----------|-----------|
| Volatiles | | | | | | | | |
| Tetrahydrofuran | ND | ug/L | 0.100 | 0.500 | 9/10/21 12:03 | TEC | EPA 8260D | U |
| Surrogate: 1,2-Dichlorobenzene-d4 | 103% | | 70-130 |) | 9/10/21 12:03 | TEC | EPA 8260D | |
| Surrogate: 4-Bromofluorobenzene | 98.9% | | 70-130 |) | 9/10/21 12:03 | ТЕС | EPA 8260D | |
| Surrogate: Toluene-d8 | 95.1% | | 70-130 |) | 9/10/21 12:03 | TEC | EPA 8260D | |

Authorized Signature,

Todd Taruscio, Laboratory Manager

U Compound was analyzed for but not detected

PQL Practical Quantitation Limit

ND Not Detected

MDL Method Detection Limit

Dry Sample results reported on a dry weight basis

Not a state-certified analyte
 RPD Relative Percent Difference

%REC Percent Recovery

Source Sample that was spiked or duplicated.

This report shall not be reproduced except in full, without the written approval of the laboratory

The results reported related only to the samples indicated.

Quality Control Data

Semivolatiles

| Analyte | Result Qual | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|-----------------------------|-------------|--------------------|-------|----------------|------------------|--------------|----------------|-----|--------------|
| Batch: BBI0298 - SVOC Water | | | | | | | | | |
| Blank (BBI0298-BLK1) | | | | Prepared: 9/8/ | 2021 Analyze | d: 9/13/2021 | | | |
| bis(2-Chloroethyl)ether | ND | 0.500 | ug/L | | | | | | |
| Di-n-octyl phthalate | ND | 0.500 | ug/L | | | | | | |
| Di-n-butyl phthalate | ND | 0.500 | ug/L | | | | | | |
| Dimethyl phthalate | ND | 0.500 | ug/L | | | | | | |
| Dibenzofuran | ND | 0.500 | ug/L | | | | | | |
| Chrysene | ND | 0.500 | ug/L | | | | | | |
| Carbazole | ND | 0.500 | ug/L | | | | | | |
| Benzyl Butyl Phthalate | ND | 0.500 | ug/L | | | | | | |
| Anthracene | ND | 0.500 | ug/L | | | | | | |
| bis(2-chloroisopropyl)ether | ND | 0.500 | ug/L | | | | | | |
| Hexachlorobenzene | ND | 0.500 | ug/L | | | | | | |
| bis(2-Chloroethoxy)methane | ND | 0.500 | ug/L | | | | | | |
| Benzyl alcohol | ND | 0.500 | ug/L | | | | | | |
| Benzo[k]fluoranthene | ND | 0.500 | ug/L | | | | | | |
| Benzo(g,h,i)perylene | ND | 0.500 | ug/L | | | | | | |
| Benzo[b]fluoranthene | ND | 0.500 | ug/L | | | | | | |
| Benzo[a]pyrene | ND | 0.500 | ug/L | | | | | | |
| Benzo[a]anthracene | ND | 0.500 | ug/L | | | | | | |
| Benzidine | ND | 0.500 | ug/L | | | | | | |
| Di (2-ethylhexyl) phthalate | ND | 0.500 | ug/L | | | | | | |
| Pyridine | ND | 0.500 | ug/L | | | | | | |
| Pyrene | ND | 0.500 | ug/L | | | | | | |
| Phenol | ND | 0.500 | ug/L | | | | | | |
| Phenanthrene | ND | 0.500 | ug/L | | | | | | |
| Pentachlorophenol | ND | 0.500 | ug/L | | | | | | |
| n-Nitrosodiphenylamine | ND | 0.500 | ug/L | | | | | | |
| Fluoranthene | ND | 0.500 | ug/L | | | | | | |
| n-nitrosodimethylamine | ND | 0.500 | ug/L | | | | | | |
| Fluorene | ND | 0.500 | ug/L | | | | | | |
| Nitrobenzene | ND | 0.500 | ug/L | | | | | | |
| Naphthalene | ND | 0.500 | ug/L | | | | | | |
| Isophorone | ND | 0.500 | ug/L | | | | | | |
| Indeno(1,2,3-cd)pyrene | ND | 0.500 | ug/L | | | | | | |
| Hexachloroethane | ND | 0.500 | ug/L | | | | | | |
| Hexachlorocyclopentadiene | ND | 0.500 | ug/L | | | | | | |
| Hexachlorobutadiene | ND | 0.500 | ug/L | | | | | | |
| Dibenz(a,h)anthracene | ND | 0.500 | ug/L | | | | | | |
| n-Nitroso-di-n-propylamine | ND | 0.500 | ug/L | | | | | | |
| 1-Methylnaphthalene | ND | 0.500 | ug/L | | | | | | |
| 2,6-Dinitrotoluene | ND | 0.500 | ug/L | | | | | | |
| 2,4-Dinitrotoluene | ND | 0.500 | ug/L | | | | | | |
| 2,4-Dinitrophenol | ND | 0.500 | ug/L | | | | | | |
| 2,4-Dimethylphenol | ND | 0.500 | ug/L | | | | | | |

Quality Control Data (Continued)

| Analyte | Result Qual | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|-------------|--------------------|-------|----------------|------------------|---------------|----------------|-----|--------------|
| Batch: BBI0298 - SVOC Water (C | ontinued) | | | | | | | | |
| Blank (BBI0298-BLK1) | , | | | Prepared: 9/8 | /2021 Analyze | ed: 9/13/2021 | [| | |
| 2,4-Dichlorophenol | ND | 0.500 | ug/L | | • | | | | |
| 2,4,6-Trichlorophenol | ND | 0.500 | ug/L | | | | | | |
| 2,4,5-Trichlorophenol | ND | 0.500 | ug/L | | | | | | |
| 2-Chloronaphthalene | ND | 0.500 | ug/L | | | | | | |
| 2,3,4,6-Tetrachlorophenol | ND | 0.500 | ug/L | | | | | | |
| 1,4-Dichlorobenzene (para-Dichlorobenzene) | ND | 0.500 | ug/L | | | | | | |
| 1,4-Dinitrobenzene | ND | 0.500 | ug/L | | | | | | |
| Aniline | ND | 0.500 | ug/L | | | | | | |
| 1,3-Dinitrobenzene | ND | 0.500 | ug/L | | | | | | |
| Diethyl phthalate | ND | 0.500 | ug/L | | | | | | |
| 1,2-Diphenyl hydrazine | ND | 0.500 | ug/L | | | | | | |
| 1,2-Dinitrobenzene | ND | 0.500 | ug/L | | | | | | |
| 1,2-Dichlorobenzene (ortho-Dichlorobenzene) | ND | 0.500 | ug/L | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 0.500 | ug/L | | | | | | |
| 2,3,5,6-Tetrachlorophenol | ND | 0.500 | ug/L | | | | | | |
| 4-Nitroaniline | ND | 0.500 | ug/L | | | | | | |
| m-Dichlorobenzene | ND | 0.500 | ug/L | | | | | | |
| 2-Chlorophenol | ND | 0.500 | ug/L | | | | | | |
| Acenaphthylene | ND | 0.500 | ug/L | | | | | | |
| 4-Nitrophenol | ND | 0.500 | ug/L | | | | | | |
| 4-Chlorophenyl-phenylether | ND | 0.500 | ug/L | | | | | | |
| 4-Chloroaniline | ND | 0.500 | ug/L | | | | | | |
| 4-Chloro-3-methylphenol | ND | 0.500 | ug/L | | | | | | |
| 4-Bromophenyl-phenylether | ND | 0.500 | ug/L | | | | | | |
| 4,6-Dinitro-2-methylphenol | ND | 0.500 | ug/L | | | | | | |
| 3-Nitroaniline | ND | 0.500 | ug/L | | | | | | |
| 2-Methylnaphthalene | ND | 0.500 | ug/L | | | | | | |
| 3,3'-Dichlorobenzidine | ND | 0.500 | ug/L | | | | | | |
| 2-Nitrophenol | ND | 0.500 | ug/L | | | | | | |
| 2-Nitroaniline | ND | 0.500 | ug/L | | | | | | |
| 2-Methylphenol | ND | 0.500 | ug/L | | | | | | |
| Acenaphthene | ND | 0.500 | ug/L | | | | | | |
| 3+4-Methylphenol | ND | 0.500 | ug/L | | | | | | |
| Surrogate: Phenol-2,3,4,5,6-d5 | | 40.4 | ug/L | 50.5 | | 79.9 | <i>51-112</i> | | |
| Surrogate: Nitrobenzene-d5 | | 19.8 | ug/L | 25.0 | | 79.4 | <i>65-110</i> | | |
| Surrogate: Terphenyl-d14 | | 26.1 | ug/L | 25.8 | | 101 | <i>57-133</i> | | |
| Surrogate: 2-Fluorophenol | | 29.1 | ug/L | 50.0 | | 58.1 | <i>37-110</i> | | |
| Surrogate: 2-Fluorobiphenyl | | 25.7 | ug/L | 25.5 | | 101 | <i>57-120</i> | | |
| Surrogate: 2,4,6-Tribromophenol | | 45.2 | ug/L | 51.8 | | 87.2 | 48-120 | | |

Quality Control Data (Continued)

| Analyte | Result Qual | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|-------------|--------------------|-------|----------------|------------------|--------------|----------------|-----|--------------|
| Batch: BBI0298 - SVOC Water (Co | ontinued) | | | | | | | | |
| LCS (BBI0298-BS1) | , | | P | repared: 9/8/ | 2021 Analyze | d: 9/13/2021 | | | |
| 2-Methylphenol | 4.08 | 0.500 | ug/L | 5.00 | , | 81.6 | 66-120 | | |
| 2-Methylnaphthalene | 4.24 | 0.500 | ug/L | 5.00 | | 84.8 | 67-121 | | |
| 2-Chlorophenol | 4.13 | 0.500 | ug/L | 5.00 | | 82.6 | 64-120 | | |
| 3-Nitroaniline | 4.23 | 0.500 | ug/L | 5.00 | | 84.6 | 49-121 | | |
| 2-Chloronaphthalene | 4.34 | 0.500 | ug/L | 5.00 | | 86.8 | 72-120 | | |
| 2,6-Dinitrotoluene | 4.53 | 0.500 | ug/L | 5.00 | | 90.6 | 67-116 | | |
| 2-Nitroaniline | 4.79 | 0.500 | ug/L | 5.00 | | 95.8 | 69-120 | | |
| 3+4-Methylphenol | 4.26 | 0.500 | ug/L | 5.00 | | 85.2 | 68-120 | | |
| 4,6-Dinitro-2-methylphenol | 4.72 | 0.500 | ug/L | 5.00 | | 94.4 | 26-150 | | |
| 2,4-Dinitrotoluene | 4.79 | 0.500 | ug/L | 5.00 | | 95.8 | 74-121 | | |
| 4-Chloroaniline | 3.01 | 0.500 | ug/L | 5.00 | | 60.2 | 30-130 | | |
| 1,3-Dinitrobenzene | 4.70 | 0.500 | ug/L | 5.00 | | 94.0 | 75-123 | | |
| 4-Bromophenyl-phenylether | 4.28 | 0.500 | ug/L | 5.00 | | 85.6 | 71-121 | | |
| 2-Nitrophenol | 4.21 | 0.500 | ug/L | 5.00 | | 84.2 | 69-120 | | |
| 1-Methylnaphthalene | 4.23 | 0.500 | ug/L | 5.00 | | 84.6 | 67-121 | | |
| 4-Nitroaniline | 4.53 | 0.500 | ug/L | 5.00 | | 90.6 | 47-128 | | |
| 4-Chlorophenyl-phenylether | 4.29 | 0.500 | ug/L | 5.00 | | 85.8 | 72-120 | | |
| 1,2,4-Trichlorobenzene | 3.86 | 0.500 | ug/L | 5.00 | | 77.2 | 69-120 | | |
| 1,2-Dichlorobenzene (ortho-Dichlorobenzene) | 3.91 | 0.500 | ug/L | 5.00 | | 78.2 | 67-120 | | |
| 1,2-Dinitrobenzene | 4.38 | 0.500 | ug/L | 5.00 | | 87.6 | 70-120 | | |
| 1,4-Dinitrobenzene | 5.05 | 0.500 | ug/L | 5.00 | | 101 | 71-121 | | |
| 1,4-Dichlorobenzene (para-Dichlorobenzene) | 3.84 | 0.500 | ug/L | 5.00 | | 76.8 | 67-120 | | |
| 2,4-Dinitrophenol | 5.00 | 0.500 | ug/L | 5.00 | | 100 | 21-128 | | |
| 2,3,4,6-Tetrachlorophenol | 4.25 | 0.500 | ug/L | 5.00 | | 85.0 | 66-120 | | |
| 2,3,5,6-Tetrachlorophenol | 4.28 | 0.500 | ug/L | 5.00 | | 85.6 | 52-115 | | |
| 2,4,5-Trichlorophenol | 4.34 | 0.500 | ug/L | 5.00 | | 86.8 | 71-120 | | |
| 2,4,6-Trichlorophenol | 4.37 | 0.500 | ug/L | 5.00 | | 87.4 | 72-120 | | |
| 2,4-Dichlorophenol | 4.28 | 0.500 | ug/L | 5.00 | | 85.6 | 72-120 | | |
| m-Dichlorobenzene | 3.77 | 0.500 | ug/L | 5.00 | | 75.4 | 67-120 | | |
| Di-n-octyl phthalate | 4.81 | 0.500 | ug/L | 5.00 | | 96.2 | 45-127 | | |
| Fluoranthene | 4.56 | 0.500 | ug/L | 5.00 | | 91.2 | 70-121 | | |
| Fluorene | 4.41 | 0.500 | ug/L | 5.00 | | 88.2 | 74-120 | | |
| Hexachlorobenzene | 4.21 | 0.500 | ug/L | 5.00 | | 84.2 | 67-118 | | |
| Hexachlorobutadiene | 3.65 | 0.500 | ug/L | 5.00 | | 73.0 | 68-120 | | |
| Hexachloroethane | 3.65 | 0.500 | ug/L | 5.00 | | 73.0 | 68-120 | | |
| Indeno(1,2,3-cd)pyrene | 4.24 | 0.500 | ug/L | 5.00 | | 84.8 | 62-123 | | |
| Isophorone | 4.61 | 0.500 | ug/L | 5.00 | | 92.2 | 78-120 | | |
| Di-n-butyl phthalate | 4.63 | 0.500 | ug/L | 5.00 | | 92.6 | 74-124 | | |
| Nitrobenzene | 4.22 | 0.500 | ug/L | 5.00 | | 84.4 | 71-120 | | |
| Phenanthrene | 4.45 | 0.500 | ug/L | 5.00 | | 89.0 | 74-120 | | |
| n-nitrosodimethylamine | 4.11 | 0.500 | ug/L | 5.00 | | 82.2 | 60-120 | | |
| n-Nitroso-di-n-propylamine | 4.44 | 0.500 | ug/L | 5.00 | | 88.8 | 71-112 | | |
| n-Nitrosodiphenylamine | 4.36 | 0.500 | ug/L | 5.00 | | 87.2 | 70-121 | | |
| Pentachlorophenol | 4.36 | 0.500 | ug/L | 5.00 | | 87.2 | 51-118 | | |
| Phenol | 4.08 | 0.500 | ug/L | 5.00 | | 81.6 | 54-121 | | |
| Pyrene | 4.65 | 0.500 | ug/L | 5.00 | | 93.0 | 59-130 | | |

Quality Control Data (Continued)

| | | | Reporting | | Spike | Source | | %REC | | RPE |
|---|---------------|------|----------------------------|--------------|---------------|---------------|-------------|--------------------------------|-----|-----|
| Analyte | Result | Qual | Limit | Units | Level | Result | %REC | Limits | RPD | Lim |
| Batch: BBI0298 - SVOC Wate | r (Continued) |) | | | | | | | | |
| LCS (BBI0298-BS1) | | | | P | repared: 9/8/ | 2021 Analyzed | : 9/13/2021 | | | |
| 4-Nitrophenol | 4.12 | | 0.500 | ug/L | 5.00 | | 82.4 | 52-118 | | |
| 4-Chloro-3-methylphenol | 4.49 | | 0.500 | ug/L | 5.00 | | 89.8 | 74-120 | | |
| Naphthalene | 4.13 | | 0.500 | ug/L | 5.00 | | 82.6 | 70-120 | | |
| Benzo(g,h,i)perylene | 4.23 | | 0.500 | ug/L | 5.00 | | 84.6 | 63-129 | | |
| Anthracene | 4.51 | | 0.500 | ug/L | 5.00 | | 90.2 | 76-120 | | |
| Acenaphthene | 4.11 | | 0.500 | ug/L | 5.00 | | 82.2 | 76-120 | | |
| Benzo[a]anthracene | 4.35 | | 0.500 | ug/L | 5.00 | | 87.0 | 80-120 | | |
| Dimethyl phthalate | 4.50 | | 0.500 | ug/L | 5.00 | | 90.0 | 72-122 | | |
| Benzo[b]fluoranthene | 4.29 | | 0.500 | ug/L | 5.00 | | 85.8 | 72-116 | | |
| Acenaphthylene | 4.36 | | 0.500 | ug/L | 5.00 | | 87.2 | 75-120 | | |
| Benzo[k]fluoranthene | 5.03 | | 0.500 | ug/L | 5.00 | | 101 | 71-121 | | |
| bis(2-Chloroethoxy)methane | 4.42 | | 0.500 | ug/L | 5.00 | | 88.4 | 74-120 | | |
| Dibenzofuran | 4.46 | | 0.500 | ug/L | 5.00 | | 89.2 | 75-120 | | |
| bis(2-chloroisopropyl)ether | 4.18 | | 0.500 | ug/L | 5.00 | | 83.6 | 69-120 | | |
| Di (2-ethylhexyl) phthalate | 4.91 | | 0.500 | ug/L | 5.00 | | 98.2 | 60-144 | | |
| Benzyl Butyl Phthalate | 4.71 | | 0.500 | ug/L | 5.00 | | 94.2 | 62-135 | | |
| Carbazole | 4.92 | | 0.500 | ug/L | 5.00 | | 98.4 | 76-123 | | |
| Chrysene | 4.53 | | 0.500 | ug/L | 5.00 | | 90.6 | 74-124 | | |
| Dibenz(a,h)anthracene | 4.44 | | 0.500 | ug/L | 5.00 | | 88.8 | 62-120 | | |
| bis(2-Chloroethyl)ether | 4.33 | | 0.500 | ug/L | 5.00 | | 86.6 | 70-120 | | |
| Benzo[a]pyrene | 4.14 | | 0.500 | ug/L | 5.00 | | 82.8 | 66-116 | | |
| Diethyl phthalate | 4.52 | | 0.500 | ug/L | 5.00 | | 90.4 | 76-121 | | |
| Surrogate: Phenol-2,3,4,5,6-d5 | | | 46.5 | ug/L | 50.5 | | 92.0 | 51-112 | | |
| Surrogate: Nitrobenzene-d5 | | | 22.5 | ug/L | 25.0 | | 90.0 | <i>65-110</i> | | |
| Surrogate: Terphenyl-d14 | | | 26.8 | ug/L | 25.8 | | 104 | 57-133 | | |
| Surrogate: 2-Fluorophenol | | | 34.4 | ug/L | <i>50.0</i> | | 68.7 | <i>37-110</i> | | |
| Surrogate: 2-Fluorobiphenyl Surrogate: 2,4,6-Tribromophenol | | | <i>29.2</i> <i>50.5</i> | ug/L ug/L | 25.5 51.8 | | 115 97.6 | <i>57-120</i> <i>48-120</i> | | |

Quality Control Data (Continued)

| Analyte | Result Qual | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|--|-------------|--------------------|-------|----------------|------------------|--------------|----------------|-------|--------------|
| Batch: BBI0298 - SVOC Water (C | ontinued) | | | | | | | | |
| LCS Dup (BBI0298-BSD1) | - | | Р | repared: 9/8/ | 2021 Analyze | d: 9/13/2021 | | | |
| Carbazole | 4.90 | 0.500 | ug/L | 5.00 | | 98.0 | 76-123 | 0.407 | 40 |
| Chrysene | 4.48 | 0.500 | ug/L | 5.00 | | 89.6 | 74-124 | 1.11 | 25 |
| Dibenz(a,h)anthracene | 4.83 | 0.500 | ug/L | 5.00 | | 96.6 | 62-120 | 8.41 | 30 |
| Dibenzofuran | 4.43 | 0.500 | ug/L | 5.00 | | 88.6 | 75-120 | 0.675 | 25 |
| Diethyl phthalate | 4.47 | 0.500 | ug/L | 5.00 | | 89.4 | 76-121 | 1.11 | 25 |
| Di-n-butyl phthalate | 4.75 | 0.500 | ug/L | 5.00 | | 95.0 | 74-124 | 2.56 | 25 |
| Dimethyl phthalate | 4.51 | 0.500 | ug/L | 5.00 | | 90.2 | 72-122 | 0.222 | 25 |
| Benzyl Butyl Phthalate | 4.29 | 0.500 | ug/L | 5.00 | | 85.8 | 62-135 | 9.33 | 34 |
| Di (2-ethylhexyl) phthalate | 4.48 | 0.500 | ug/L | 5.00 | | 89.6 | 60-144 | 9.16 | 32 |
| bis(2-chloroisopropyl)ether | 4.22 | 0.500 | ug/L | 5.00 | | 84.4 | 69-120 | 0.952 | 28 |
| bis(2-Chloroethyl)ether | 4.27 | 0.500 | ug/L | 5.00 | | 85.4 | 70-120 | 1.40 | 30 |
| bis(2-Chloroethoxy)methane | 4.29 | 0.500 | ug/L | 5.00 | | 85.8 | 74-120 | 2.99 | 25 |
| Benzo[k]fluoranthene | 4.96 | 0.500 | ug/L | 5.00 | | 99.2 | 71-121 | 1.40 | 25 |
| Di-n-octyl phthalate | 4.01 | 0.500 | ug/L | 5.00 | | 80.2 | 45-127 | 18.1 | 32 |
| Benzo[b]fluoranthene | 4.10 | 0.500 | ug/L | 5.00 | | 82.0 | 72-116 | 4.53 | 25 |
| Benzo[a]pyrene | 4.89 | 0.500 | ug/L | 5.00 | | 97.8 | 66-116 | 16.6 | 25 |
| Benzo(g,h,i)perylene | 4.55 | 0.500 | ug/L | 5.00 | | 91.0 | 63-129 | 7.29 | 25 |
| Nitrobenzene | 4.14 | 0.500 | ug/L | 5.00 | | 82.8 | 71-120 | 1.91 | 25 |
| 2,6-Dinitrotoluene | 4.48 | 0.500 | ug/L | 5.00 | | 89.6 | 67-116 | 1.11 | 35 |
| Benzo[a]anthracene | 4.33 | 0.500 | ug/L | 5.00 | | 86.6 | 80-120 | 0.461 | 25 |
| Phenol | 4.09 | 0.500 | ug/L | 5.00 | | 81.8 | 54-121 | 0.245 | 33 |
| Phenanthrene | 4.50 | 0.500 | ug/L | 5.00 | | 90.0 | 74-120 | 1.12 | 25 |
| Pentachlorophenol | 4.29 | 0.500 | ug/L | 5.00 | | 85.8 | 51-118 | 1.62 | 25 |
| n-Nitrosodiphenylamine | 4.45 | 0.500 | ug/L | 5.00 | | 89.0 | 70-121 | 2.04 | 25 |
| Naphthalene | 4.22 | 0.500 | ug/L | 5.00 | | 84.4 | 70-120 | 2.16 | 25 |
| n-nitrosodimethylamine | 4.03 | 0.500 | ug/L | 5.00 | | 80.6 | 60-120 | 1.97 | 35 |
| Pyrene | 4.33 | 0.500 | ug/L | 5.00 | | 86.6 | 59-130 | 7.13 | 35 |
| Isophorone | 4.48 | 0.500 | ug/L | 5.00 | | 89.6 | 78-120 | 2.86 | 25 |
| Indeno(1,2,3-cd)pyrene | 4.63 | 0.500 | ug/L | 5.00 | | 92.6 | 62-123 | 8.79 | 25 |
| Hexachloroethane | 3.67 | 0.500 | ug/L | 5.00 | | 73.4 | 68-120 | 0.546 | 28 |
| Hexachlorobutadiene | 3.74 | 0.500 | ug/L | 5.00 | | 74.8 | 68-120 | 2.44 | 25 |
| Hexachlorobenzene | 4.51 | 0.500 | ug/L | 5.00 | | 90.2 | 67-118 | 6.88 | 25 |
| Fluorene | 4.38 | 0.500 | ug/L | 5.00 | | 87.6 | 74-120 | 0.683 | 25 |
| Fluoranthene | 4.70 | 0.500 | ug/L | 5.00 | | 94.0 | 70-121 | 3.02 | 25 |
| n-Nitroso-di-n-propylamine | 4.37 | 0.500 | ug/L | 5.00 | | 87.4 | 71-112 | 1.59 | 25 |
| 1,4-Dinitrobenzene | 4.84 | 0.500 | ug/L | 5.00 | | 96.8 | 71-121 | 4.25 | 25 |
| 2,4-Dinitrophenol | 4.18 | 0.500 | ug/L | 5.00 | | 83.6 | 21-128 | 17.9 | 36 |
| 2-Chlorophenol | 4.13 | 0.500 | ug/L | 5.00 | | 82.6 | 64-120 | 0.00 | 33 |
| 2,4,6-Trichlorophenol | 4.39 | 0.500 | ug/L | 5.00 | | 87.8 | 72-120 | 0.457 | 25 |
| 2,4,5-Trichlorophenol | 4.39 | 0.500 | ug/L | 5.00 | | 87.8 | 71-120 | 1.15 | 25 |
| 2,3,5,6-Tetrachlorophenol | 4.20 | 0.500 | ug/L | 5.00 | | 84.0 | 52-115 | 1.89 | 25 |
| Anthracene | 4.50 | 0.500 | ug/L | 5.00 | | 90.0 | 76-120 | 0.222 | 25 |
| 1-Methylnaphthalene | 4.26 | 0.500 | ug/L | 5.00 | | 85.2 | 67-121 | 0.707 | 25 |
| 2,4-Dinitrotoluene | 4.58 | 0.500 | ug/L | 5.00 | | 91.6 | 74-121 | 4.48 | 25 |
| 1,4-Dichlorobenzene (para-Dichlorobenzene) | 3.85 | 0.500 | ug/L | 5.00 | | 77.0 | 67-120 | 0.260 | 25 |
| 1,3-Dinitrobenzene | 4.27 | 0.500 | ug/L | 5.00 | | 85.4 | 75-123 | 9.59 | 25 |

Quality Control Data (Continued)

Semivolatiles (Continued)

| | Result | Qual | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limi |
|---|-----------|------|----------------------------|--------------|----------------|------------------|--------------|--------------------------------|-------|-------------|
| Batch: BBI0298 - SVOC Water (Co | ontinued) |) | | | | | | | | |
| LCS Dup (BBI0298-BSD1) | | | | Pi | epared: 9/8/ | 2021 Analyze | d: 9/13/2021 | | | |
| m-Dichlorobenzene | 3.82 | | 0.500 | ug/L | 5.00 | | 76.4 | 67-120 | 1.32 | 25 |
| 1,2-Dinitrobenzene | 3.73 | | 0.500 | ug/L | 5.00 | | 74.6 | 70-120 | 16.0 | 25 |
| 1,2-Dichlorobenzene (ortho-Dichlorobenzene) | 3.94 | | 0.500 | ug/L | 5.00 | | 78.8 | 67-120 | 0.764 | 25 |
| 1,2,4-Trichlorobenzene | 4.01 | | 0.500 | ug/L | 5.00 | | 80.2 | 69-120 | 3.81 | 25 |
| 2,3,4,6-Tetrachlorophenol | 4.03 | | 0.500 | ug/L | 5.00 | | 80.6 | 66-120 | 5.31 | 25 |
| 4-Bromophenyl-phenylether | 4.58 | | 0.500 | ug/L | 5.00 | | 91.6 | 71-121 | 6.77 | 25 |
| Acenaphthylene | 4.44 | | 0.500 | ug/L | 5.00 | | 88.8 | 75-120 | 1.82 | 30 |
| Acenaphthene | 4.20 | | 0.500 | ug/L | 5.00 | | 84.0 | 76-120 | 2.17 | 25 |
| 4-Nitrophenol | 3.26 | | 0.500 | ug/L | 5.00 | | 65.2 | 52-118 | 23.3 | 35 |
| 4-Nitroaniline | 4.12 | | 0.500 | ug/L | 5.00 | | 82.4 | 47-128 | 9.48 | 32 |
| 4-Chlorophenyl-phenylether | 4.29 | | 0.500 | ug/L | 5.00 | | 85.8 | 72-120 | 0.00 | 25 |
| 2,4-Dichlorophenol | 4.25 | | 0.500 | ug/L | 5.00 | | 85.0 | 72-120 | 0.703 | 25 |
| 4-Chloro-3-methylphenol | 4.22 | | 0.500 | ug/L | 5.00 | | 84.4 | 74-120 | 6.20 | 25 |
| 2-Chloronaphthalene | 4.39 | | 0.500 | ug/L | 5.00 | | 87.8 | 72-120 | 1.15 | 25 |
| 4,6-Dinitro-2-methylphenol | 4.38 | | 0.500 | ug/L | 5.00 | | 87.6 | 26-150 | 7.47 | 25 |
| 3-Nitroaniline | 3.96 | | 0.500 | ug/L | 5.00 | | 79.2 | 49-121 | 6.59 | 39 |
| 3+4-Methylphenol | 4.20 | | 0.500 | ug/L | 5.00 | | 84.0 | 68-120 | 1.42 | 25 |
| 2-Nitrophenol | 4.24 | | 0.500 | ug/L | 5.00 | | 84.8 | 69-120 | 0.710 | 25 |
| 2-Nitroaniline | 4.39 | | 0.500 | ug/L | 5.00 | | 87.8 | 69-120 | 8.71 | 25 |
| 2-Methylphenol | 4.05 | | 0.500 | ug/L | 5.00 | | 81.0 | 66-120 | 0.738 | 25 |
| 2-Methylnaphthalene | 4.27 | | 0.500 | ug/L | 5.00 | | 85.4 | 67-121 | 0.705 | 25 |
| 4-Chloroaniline | 3.04 | | 0.500 | ug/L | 5.00 | | 60.8 | 30-130 | 0.992 | 40 |
| Surrogate: Phenol-2,3,4,5,6-d5 | | | 45.6 | ug/L | 50.5 | | 90.3 | 51-112 | | |
| Surrogate: Nitrobenzene-d5 | | | 21.8 | ug/L | 25.0 | | 87.3 | <i>65-110</i> | | |
| Surrogate: Terphenyl-d14 | | | 24.7 | ug/L | 25.8 | | 95.8 | <i>57-133</i> | | |
| Surrogate: 2-Fluorophenol | | | 33.5 | ug/L | 50.0 | | 67.0 | 37-110 | | |
| Surrogate: 2-Fluorobiphenyl Surrogate: 2,4,6-Tribromophenol | | | <i>29.9</i> <i>51.1</i> | ug/L ug/L | 25.5 51.8 | | 117 98.7 | <i>57-120</i> <i>48-120</i> | | |

Quality Control Data (Continued)

Volatiles

| Analyte | Result | Qual | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|----------------------------|--|------|--------------------|-------|----------------|------------------|---------|----------------|-----|--------------|
| Batch: BBI0293 - VOC | | | | | | | | | | |
| Blank (BBI0293-BLK1) | | | | | Prepared 8 | & Analyzed: 9, | 10/2021 | | | |
| Tetrahydrofuran | ND | U | 0.500 | ug/L | | | | | | |
| LCS (BBI0293-BS1) | | | | | Prepared 8 | & Analyzed: 9, | 10/2021 | | | |
| Tetrahydrofuran | 21.9 | | 0.500 | ug/L | 20.0 | | 109 | 80-120 | | |
| Matrix Spike (BBI0293-MS1) | Source: MBI0298-01 Prepared & Analyzed: 9/10/2021 | | | | | | | | | |
| Tetrahydrofuran | 108 | | 2.50 | ug/L | 100 | ND | 108 | 70-130 | | |

Prepared & Analyzed: 9/10/2021

Matrix Spike Dup (BBI0293-MSD1) Source: MBI0298-01

Quality Control Data (Continued)

Volatiles (Continued)

| Analyte | Result | Qual | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|----------------------------------|--------------------|------|--------------------|-------|--------------------------------|------------------|------|----------------|------|--------------|
| Batch: BBI0293 - VOC (Continued) | | | | | | | | | | |
| Matrix Spike Dup (BBI0293-MSD1) | Source: MBI0298-01 | | | | Prepared & Analyzed: 9/10/2021 | | | | | |
| Tetrahydrofuran | 98.4 | | 2.50 | ug/L | 100 | ND | 98.4 | 70-130 | 9.12 | 25 |

HALL ENVIRONMENTAL ANALYSIS LABORATORY

CHAIN OF CUSTODY RECORD PAGE: 1 OF: 1

Hall

MBI0301 Due: 09/22/21

Wel

| SUB CO | ONTRATOR: Anate | k ID COMPANY: | Anatek Labs, Inc. | | PHONE: | (208) 883-2839 | FAX: | (208) 882-9246 |
|---------|------------------|-------------------|-------------------|---------|----------------------|-------------------------|------------|----------------|
| ADDRE | 1282 A | Alturas Dr | | | ACCOUNT #: | | EMAIL. | |
| CITY, S | TATE, ZIP: Mosco | ow, ID 83843 | | | | | | |
| ITEM | SAMPLE | CLIENT SAMPLE ID | ВОТТLЕ ТҮРЕ | MATRIX | COLLECTION DATE | # CONTAINERS | ANALYTICAI | _ COMMENTS |
| 1 | 2109132-001A | RG North-20210901 | VOAHCL | Aqueous | 9/1/2021 10:05:00 AM | 3 8260: Tetrahydrofu | ran | |
| 2 | 2109132-001K | RG North-20210901 | 1LAMGU | Aqueous | 9/1/2021 10:05:00 AM | 1 2 8270 See attached I | ist | |
| 3 | 2109132-003A | RG South-20210902 | VOAHCL | Aqueous | 9/2/2021 9:20:00 AM | 3 8260: Tetrahydrofu | ran | |
| 4 | 2109132-003K | RG South-20210902 | 1LAMGU | Aqueous | 9/2/2021 9:20:00 AM | 2 8270 See attached I | ist | |
| 5 | 2109132-006A | Trip Blank | VOAHCL | Trip | | 2 8260: Tetrahydrofu | ran | |

500 913/21

| SPECIAL INSTRUCTIONS / COMM | HENTS: | | | | | |
|-----------------------------|--|-------------|--------------------------------------|-------------------|-------------------|--|
| Please include the LAB ID a | nd the CLIENT S | AMPLE ID on | all final reports. Please e-mail res | ults to lab@halle | nvironmental.com. | . Please return all coolers and blue ice. Thank you. |
| | | | | | | |
| Relinquished By: | Date: | Time: | Received By: | Date: | Time | REPORT TRANSMITTAL DESIRED: |
| oec | 9/2/2021 | 2:44 PM | . 0 | Ografus (| 124(| ☐ HARDCOPY (extra cost) ☐ FAX ☐ EMAIL ☐ ONLINE |
| Relinquished By: | Date: | Time: | Received By: | Date: | Time: | FOR LAB USE ONLY |
| Relinquished By: | Date: | Time: | Received By: | Date: | Time: | FOR LAD GOE ONL I |
| | | 1 | L | | | Temp of samples C Attempt to Cool? |
| TAT: | Standard 🗸 | RUSH | Next BD 2nd BD | ☐ 3rd Bl | | |
| | | | | | MONEYAUR | Comments |
| | A THE STREET WAS AND STREET OF THE STREET OF | | | | | |

Collaborative Monitoring Cooperative - Analyses Lie Attach to Chain of Custody

Due: 09/22/21

<u>Please refer to attached NPDES Permit No. NMR04A00 Appendix F. Methods and minimum</u>

(MQL's) will be those approved under 40 CFR 136 and specified in the attached permit

| Analyte (Bold Indicates WQS) | CAS# | Fraction | Method # | MDL (µg/L) |
|----------------------------------|-----------------------|-----------|------------------|------------|
| Hardness (Ca + Mg) | NA | Total | 200.7 | 2.4 |
| -tond | 7439-92-1 | Dissolved | 200.8 | 0.09 |
| Copper | 7440-50-8 | Dissolved | 200.8 | 1.06 |
| Ammonia + organic nitrogen | 7664-41-7 | Total | 350.1 | 31.32 |
| Total Kjehidal Nitrogen | 17778-88-0 | Total | 351.2 | 58.78 |
| Nitrate + Nitrite | 14797-55-8 | Total | 353.2 | 10.17 |
| Polychlorinated biphenyls (PCBs) | 1336-36-3 | Total | 1668 | 0.014 |
| Tetrahydrofuran (THF) | 109-99-9 | Total | 8260C | 7.9 |
| bis(2-Ethylhexyl)phthalate | 117-81-7 | Total | 8270D | 0.2 |
| Dibenzofuran | 132-64-9 | Total | 8270D | 0.2 |
| Indeno(1,2,3-cd)pyrene | 193-39-5 | Total | 8270D | 0.2 |
| Benzo(b)fluoranthene | 205-99-2 | Total | 8270D | 0.1 |
| Benzo(k)fluoranthene | 207-08-9 | Total | 8270D | 0.1 |
| Chrysene | 218-01-9 | Total | 8270D | 0.2 |
| Benzo(a)pyrene | 50-32-8 | Total | 8270D | 0.3 |
| Dibenzo(a,h)anthracene | 53-70-3 | Total | 8270D | 0.3 |
| Benzo(a)anthracene | 56-55-3 | Total | 8270D | 0.2 |
| Dieldrin | 60-57-1 | Total | 8081 | 0.1 |
| Pentachlorophenol | 87-86-5 | Total | 8270D | 0.2 |
| Benzidine | 92-87-5 | Total | 8270D | 0.1 |
| Chemical Oxygen Demand | E1641638 ² | Total | HACH | 5100 |
| Gross alpha (adjusted) | NA | Total | Method 900 | 0.1 pCi/L |
| Total Dissolved Solids | E16422222 | Total | SM 2540C | 60.4 |
| Total Suspended Solids | NA | Total | SM 2540D | 3450 |
| Biological Oxygen Demand | N/A | Total | Standard Methods | 930 |
| Oil and Grease | | Total | 1664A | 5000 |
| Ecoli-enumeration | | | SM 9223B | |
| DH | | | SM 4500 | |
| Phesphorus | | Dissolved | 365.1 | 100 |
| Phosphorus | | Total | 365.1 | 100 |
| Chromium IV | | Total | 3500Cr C-2011 | 100 |

Anatek Labs, Inc.

Sample Receipt and Preservation Form



Due: 09/22/21

| 11 / / / | | |
|---|--|-----------------|
| Client Name: | _ Project: | |
| TAT: Normal RUSH: day | ys | |
| Samples Received From: FedEx UF | PS USPS Client Courier Other: | |
| Custody Seal on Cooler/Box: Yes N | No Custody Seals Intact: Yes No | N/A |
| Number of Coolers/Boxes: | Type of Ice: Ice/Ice Packs Blue Ice | e Dry Ice None |
| Packing Material: Bubble Wrap Bag | gs Foam/Peanuts None Other: | <u>}</u> |
| Cooler Temp As Read (°C): 2-6 | Cooler Temp Corrected (°C): Thermome | eter Used: DR-5 |
| | | omments: |
| Samples Received Intact? | Yes No N/A | |
| Chain of Custody Present? | Yes No N/A | |
| Samples Received Within Hold Time? | Yes No N/A | |
| Samples Properly Preserved? | (Yes No N/A | |
| VOC Vials Free of Headspace (<6mm)? | Yes No N/A | |
| VOC Trip Blanks Present? | (Yes No N/A | |
| Labels and Chains Agree? | | |
| 45 19 19 19 19 19 19 19 19 19 19 19 19 19 | | |
| Total Number of Sample Bottles Received | 1: | |
| Chain of Custody Fully Completed? | Mes No N/A | |
| Correct Containers Received? | Yes No N/A | |
| Anatek Bottles Used? | Yes No Unknown | |
| Anatok Bottles Osed : | Tes (149 GIIAIIOWI) | |
| Record preservatives (and lot numbers, if | 7 | |
| Itel- 8260 -544W X. | 6+ ZTB | |
| | | 1 |
| | | |
| | | |
| | | |
| Notes comments etc. (also use this are | as if contacting the plicat arrand arrange and data to | · |
| | ce if contacting the client - record names and date/ti | me) |
| 8270-916 x2 | | |
| O. | | |
| | | |
| | | |
| | | |
| | | |
| Received/Inspected By: | Date/Time: 09/03/cee/ | 1241 |
| | p Sator fillo | |



Pace Analytical® ANALYTICAL REPORT

September 13, 2021

Hall Environmental Analysis Laboratory

L1400264 Sample Delivery Group: Samples Received: 09/08/2021

Project Number:

Description:

Report To: Jackie Bolte

4901 Hawkins NE

Albuquerque, NM 87109

















Entire Report Reviewed By: Jahn V Houkins

John Hawkins

Project Manager Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received. Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

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SAMPLE SUMMARY

| 2109132-001 RG NORTH-20210901 L1400264-01 \ | WW | | Collected by | Collected date/time 09/01/21 10:05 | Received date/time 09/08/21 09:15 | |
|---|-----------|----------|----------------|------------------------------------|--------------------------------------|----------------|
| Method | Batch | Dilution | Preparation | Analysis | Analyst | Location |
| | | | date/time | date/time | | |
| Wet Chemistry by Method 3500Cr C-2011 | WG1737107 | 1 | 09/10/21 16:47 | 09/10/21 16:47 | GB | Mt. Juliet, TN |
| Wet Chemistry by Method 410.4 | WG1737390 | 1 | 09/09/21 20:00 | 09/09/21 23:09 | BFG | Mt. Juliet, TN |
| | | | Collected by | Collected date/time | Received da | te/time |
| 2109132-003 RG SOUTH-20210902 L1400264-02 | WW | | | 09/02/21 09:20 | 09/08/21 09 | :15 |
| Method | Batch | Dilution | Preparation | Analysis | Analyst | Location |
| | | | date/time | date/time | | |
| Wet Chemistry by Method 3500Cr C-2011 | WG1737107 | 1 | 09/10/21 17:03 | 09/10/21 17:03 | GB | Mt. Juliet, TN |
| Wet Chemistry by Method 410.4 | WG1737390 | 1 | 09/09/21 20:00 | 09/09/21 23:09 | BFG | Mt. Juliet. TN |





















CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

¹Cp

















PAGE:

4 of 11

John Hawkins Project Manager Collected date/time: 09/01/21 10:05

SAMPLE RESULTS - 01

L1400264

Wet Chemistry by Method 3500Cr C-2011

| | Result | Qualifier | RDL | Dilution | Analysis | Batch |
|---------------------|--------|-----------|----------|----------|------------------|-----------|
| Analyte | mg/l | | mg/l | | date / time | |
| Hexavalent Chromium | ND | | 0.000500 | 1 | 09/10/2021 16:47 | WG1737107 |

²Tc



| | Result | Qualifier | RDL | Dilution | Analysis | Batch |
|---------|--------|-----------|------|----------|------------------|-----------|
| Analyte | mg/l | | mg/l | | date / time | |
| COD | 22.2 | | 20.0 | 1 | 09/09/2021 23:09 | WG1737390 |















Collected date/time: 09/02/21 09:20

SAMPLE RESULTS - 02

1400264

Wet Chemistry by Method 3500Cr C-2011

| | Result | Qualifier | RDL | Dilution | Analysis | Batch |
|---------------------|--------|-----------|----------|----------|------------------|-----------|
| Analyte | mg/l | | mg/l | | date / time | |
| Hexavalent Chromium | ND | | 0.000500 | 1 | 09/10/2021 17:03 | WG1737107 |

²Tc



| | Result | Qualifier | RDL | Dilution | Analysis | Batch |
|---------|--------|-----------|------|----------|------------------|-----------|
| Analyte | mg/l | | mg/l | | date / time | |
| COD | 54.2 | | 20.0 | 1 | 09/09/2021 23:09 | WG1737390 |















WG1737107

QUALITY CONTROL SUMMARY

Wet Chemistry by Method 3500Cr C-2011

L1400264-01,02

Method Blank (MB)

| (MB) R3703139-1 | 09/10/21 11:55 |
|-----------------|----------------|
|-----------------|----------------|

| | MB Result | MB Qualifier | MB MDL | MB RDL |
|--|-----------|--------------|--------|--------|
| | | | | |

Analyte mg/l mg/l mg/l 0.000500

Hexavalent Chromium 0.000150

L1397842-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1397842-03 09/10/21 13:33 • (DUP) R3703139-3 09/10/21 13:43

| | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|---------------------|-----------------|------------|----------|---------|---------------|-------------------|
| Analyte | mg/I | mg/l | | % | | % |
| Hexavalent Chromium | ND | ND | 1 | 0.000 | | 20 |

L1400264-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1400264-02 09/10/21 17:03 • (DUP) R3703139-7 09/10/21 17:11

| | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|---------------------|-----------------|------------|----------|---------|---------------|-------------------|
| Analyte | mg/l | mg/l | | % | | % |
| Hexavalent Chromium | ND | ND | 1 | 0.000 | | 20 |

Laboratory Control Sample (LCS)

(LCS) R3703139-2 09/10/21 12:03

| | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
|---------------------|--------------|------------|----------|-------------|---------------|
| Analyte | mg/l | mg/l | % | % | |
| Hexavalent Chromium | 0.00200 | 0.00200 | 100 | 90.0-110 | |

L1397842-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1397842-04 09/10/21 13:51 • (MS) R3703139-4 09/10/21 13:58 • (MSD) R3703139-5 09/10/21 14:06

| | Spike Amount | Original Result | MS Result | MSD Result | MS Rec. | MSD Rec. | Dilution | Rec. Limits | MS Qualifier | MSD Qualifier | RPD | RPD Limits |
|---------------------|--------------|-----------------|-----------|------------|---------|----------|----------|-------------|--------------|---------------|-------|------------|
| Analyte | mg/l | mg/l | mg/l | mg/l | % | % | | % | | | % | % |
| Hexavalent Chromium | 0.0500 | 0.109 | 0.152 | 0.152 | 86.1 | 87.0 | 1 | 90.0-110 | E J6 | E J6 | 0.294 | 20 |

L1400264-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1400264-01 09/10/21 16:47 • (MS) R3703139-6 09/10/21 16:55

| | Spike Amount | Original Result | MS Result | MS Rec. | Dilution | Rec. Limits | MS Qualifier |
|---------------------|--------------|-----------------|-----------|---------|----------|-------------|--------------|
| Analyte | mg/l | mg/l | mg/l | % | | % | |
| Hexavalent Chromium | 0.0500 | ND | 0.0492 | 98.5 | 1 | 90.0-110 | |

PROJECT: ACCOUNT: Hall Environmental Analysis Laboratory

Ss

[†]Cn

Sc

WG1737390

QUALITY CONTROL SUMMARY

L1400264-01,02

Wet Chemistry by Method 410.4

Method Blank (MB)

COD

| (MB) R3702571-1 09/09/21 | l 23:07 | | | |
|--------------------------|-----------|--------------|--------|--------|
| | MB Result | MB Qualifier | MB MDL | MB RDL |
| Analyte | mg/l | | mg/l | mg/l |



Ss

L1400084-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1400084-01 09/09/21 23:07 • (DUP) R3702571-3 09/09/21 23:08

| | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|---------|-----------------|------------|----------|---------|---------------|-------------------|
| Analyte | mg/l | mg/l | | % | | % |
| COD | ND | ND | 1 | 200 | P1 | 20 |

11.7

20.0



L1400373-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1400373-03 09/09/21 23:11 • (DUP) R3702571-6 09/09/21 23:11

| (00) 21100070 00 03,037. | Original Result | | | DUP RPD | DUP Qualifier | DUP RPD Limits |
|--------------------------|-----------------|------|---|---------|---------------|-------------------|
| Analyte | mg/l | mg/l | | % | | % |
| COD | ND | ND | 1 | 0.000 | | 20 |



Laboratory Control Sample (LCS)

(LCS) R3702571-2 09/09/21 23:07

| | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
|---------|--------------|------------|----------|-------------|---------------|
| Analyte | mg/I | mg/l | % | % | |
| COD | 500 | 495 | 98.9 | 90.0-110 | |

SC

L1400264-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1400264-02 09/09/21 23:09 • (MS) R3702571-4 09/09/21 23:10 • (MSD) R3702571-5 09/09/21 23:10

| (00) 2020.02 | 00/00/2:20:00 (0 | ,, 020, | 00,00,2.20 | (02) | | . 2. 200 | | | | | | | |
|--------------|------------------|-----------------|------------|------------|---------|----------|----------|-------------|--------------|---------------|-------|------------|--|
| | Spike Amount | Original Result | MS Result | MSD Result | MS Rec. | MSD Rec. | Dilution | Rec. Limits | MS Qualifier | MSD Qualifier | RPD | RPD Limits | |
| Analyte | mg/l | mg/l | mg/l | mg/l | % | % | | % | | | % | % | |
| COD | 500 | 54.2 | 568 | 570 | 103 | 103 | 1 | 80 0-120 | | | 0.399 | 20 | |

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

| Abbic viations and | a Delimitoris |
|---------------------------------|--|
| MDL | Method Detection Limit. |
| ND | Not detected at the Reporting Limit (or MDL where applicable). |
| RDL | Reported Detection Limit. |
| Rec. | Recovery. |
| RPD | Relative Percent Difference. |
| SDG | Sample Delivery Group. |
| U | Not detected at the Reporting Limit (or MDL where applicable). |
| Analyte | The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported. |
| Dilution | If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor. |
| Limits | These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges. |
| Original Sample | The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG. |
| Qualifier | This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable. |
| Result | The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte. |
| Uncertainty (Radiochemistry) | Confidence level of 2 sigma. |
| Case Narrative (Cn) | A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report. |
| Quality Control Summary (Qc) | This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material. |
| Sample Chain of Custody (Sc) | This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis. |
| Sample Results (Sr) | This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported. |
| Sample Summary (Ss) | This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis. |

| Qualifier | Description |
|-----------|---|
| E | The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL). |
| J6 | The sample matrix interfered with the ability to make any accurate determination; spike value is low. |
| P1 | RPD value not applicable for sample concentrations less than 5 times the reporting limit. |

















ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

| Alabama | 40660 | Nebraska | NE-OS-15-05 |
|-------------------------------|-------------|-----------------------------|------------------|
| Alaska | 17-026 | Nevada | TN000032021-1 |
| Arizona | AZ0612 | New Hampshire | 2975 |
| Arkansas | 88-0469 | New Jersey-NELAP | TN002 |
| California | 2932 | New Mexico ¹ | TN00003 |
| Colorado | TN00003 | New York | 11742 |
| Connecticut | PH-0197 | North Carolina | Env375 |
| Florida | E87487 | North Carolina 1 | DW21704 |
| Georgia | NELAP | North Carolina ³ | 41 |
| Georgia ¹ | 923 | North Dakota | R-140 |
| Idaho | TN00003 | Ohio-VAP | CL0069 |
| Illinois | 200008 | Oklahoma | 9915 |
| Indiana | C-TN-01 | Oregon | TN200002 |
| Iowa | 364 | Pennsylvania | 68-02979 |
| Kansas | E-10277 | Rhode Island | LAO00356 |
| Kentucky 16 | KY90010 | South Carolina | 84004002 |
| Kentucky ² | 16 | South Dakota | n/a |
| Louisiana | Al30792 | Tennessee 14 | 2006 |
| Louisiana | LA018 | Texas | T104704245-20-18 |
| Maine | TN00003 | Texas ⁵ | LAB0152 |
| Maryland | 324 | Utah | TN000032021-11 |
| Massachusetts | M-TN003 | Vermont | VT2006 |
| Michigan | 9958 | Virginia | 110033 |
| Minnesota | 047-999-395 | Washington | C847 |
| Mississippi | TN00003 | West Virginia | 233 |
| Missouri | 340 | Wisconsin | 998093910 |
| Montana | CERT0086 | Wyoming | A2LA |
| A2LA – ISO 17025 | 1461.01 | AIHA-LAP,LLC EMLAP | 100789 |
| A2LA – ISO 17025 ⁵ | 1461.02 | DOD | 1461.01 |
| Canada | 1461.01 | USDA | P330-15-00234 |
| | | | |



^{*} Not all certifications held by the laboratory are applicable to the results reported in the attached report.

TN00003

EPA-Crypto



















 $^{^* \, \}text{Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.} \\$

HALL ENVIRONMENTAL ANALYSIS LABORATORY

CHAIN OF CUSTODY RECORD

PAGE: OF: 1

Hall Environmental Analysis Laboratory

4901 Hawkins NE

Albuquerque, NM 8⁻109 TEL: 505-345-39⁻5

FAX: 505-345-4107

Website: clients.hallenvironmental.com

| SU | IB CO | NTRATOR: Pace T | COMPANY: PAC | E TN | | PHONE: | (800) 767-5859 FAX: (615) 758-5859 |
|----|--------|------------------|-------------------|----------------|---------|----------------------|------------------------------------|
| | DDRES | 25. | Lebanon Rd | | | ACCOUNT #: | EMAIL: |
| Cľ | TY, ST | ATE, ZIP: Mt. Ju | diet, TN 37122 | | | 12-4 | |
| IT | EM | SAMPLE | CLIENT SAMPLE ID | BOTTLE TYPE | MATRIX | COLLECTION DATE | ANALYTICAL COMMENTS |
| - | - | | RG North-20210901 | | Aqueous | 9/1/2021 10:05:00 AM | 1 COD42 -O(|
| | 2 | 2109132-001I | RG North-20210901 | 1LHDPEHNO | Aqueous | 9/1/2021 10:05:00 AM | 1 Adjusted Gross Alpha |
| _ | 3 | 2109132-001J | RG North-20210901 | 120mL | Aqueous | 9/1/2021 10:05:00 AM | 1 Cr 6 -01 |
| | 4 | 2109132-003H | RG South-20210902 | | Aqueous | 9/2/2021 9:20:00 AM | 1 COD 62 - 07 |
| - | 5 | 2109132-003I | RG South 20210902 | 1LHDPEHNO | Aqueous | 9/2/2021 9-20-00 AM | 1 Adjusted Gross Alpha |
| | 6 | 2109132-003J | RG South-20210902 | 120mL | Aqueous | 9/2/2021 9:20:00 AM | 1 Cr 6 - 0Z |

Sample Receipt Checklist

COC Seal Present/Intact: Y N If Applicable
COC Signed/Accurate: N VOA Zero Headspace: Y N

Bottles arrive intact: N Pres.Correct/Check: Y N

Correct bottles used: N

Sufficient volume sent: N

RAD Screen <0.5 mR/hr: Y N

B182

| in separa | te costa | - 56 | c 9/7/21 | | | |
|--------------------|----------------|---------------|----------------|-------|-------|--|
| elinquished By: SW | Date: 9/2/2021 | Time: 2:48 PM | Received By: | Date: | Time: | REPORT TRANSMITTAL DESIRED: HARDCOPY (extra cost) |
| elinquished By: | Date: | Time: | Received By: | Date: | Time: | FOR LAB USE ONLY |
| elinquished By: | Date: | Time: | Betterday | 4/8/4 | 9:15 | Temp of samples (31) = 1-4 + 207 Attempt to Cool? |
| TAT: | Standard 🗸 | RUSH | Next BD 2nd BD | 3rd B | D [] | A AMERICAN |
| 1.411 | | | | | | Comments |
| | | | | | | 2834/8373440 |



an affiliate of The GEL Group INC

www.capefearanalytical.com

October 01, 2021

Mr. Andy Freeman Hall Environmental 4901 Hawkins NE Suite D Albuquerque, New Mexico 87109

Re: Routine Analysis Work Order: 18708 SDG: 2109132

Dear Mr. Freeman:

Cape Fear Analytical LLC (CFA) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on September 08, 2021. This original data report has been prepared and reviewed in accordance with CFA's standard operating procedures.

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at 910-795-0421.

Cyride Larkins

Cynde Larkins Project Manager

Purchase Order: IDIQ Pricing

Enclosures

| HALL |
|---------------|
| ENVIRONMENTAL |
| ANALYSIS |
| LABORATORY |

| THEATH | OF | OHIOMORY | DECORD | PAGE: | : 0 |
|--------|------------|----------|--------|-------|-----|
| JIAIN | U r | CUSTODY | RECORD | 1 | |

or: 1

Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

Website: clients.hallenvironmental.com

| CFA | 1110#1 | 8708 |
|-----|----------|------|
| U # | 1000-4-1 | NTUU |

| | | | | | | 1 703 | |
|-----------|-----------------------|--------------------------|--|--|----------------------|---------------------|---------------------|
| SUB CO! | NTRATOR: Cape | Fear Analytical COMPANY. | Cape Fear Analyti | cal | PHONE | (910) 795-0421 | FAX: |
| ADDRES | 3306 | Kitty Hawk Rd Ste 120 | The second of th | | ACCOUNT #: | | EMAIL: |
| CITY, ST. | ATE, ZIP: Wilm | ington, NC 28405 | | The delichants are also a proper south or results as the same case | | | |
| ІТЕМ | SAMPLE | CLIEN'T SAMPLE ID | BOTTLE TYPE | MATRIX | COLLECTION DATE | # CONTAINER | ANALYTICAL COMMENTS |
| 1 | 2109132-001G | RG North-20210901 | 1LAMGU | | 9/1/2021 10:05:00 AM | 2 PCB Congeners 166 | 8 |
| 2 2 | 2109132-003G | RG South-20210902 | 1LAMGU | Aqueous | 9/2/2021 9:20:00 AM | 2 PCB Congeners 166 | 8 |

| SPECIAL INSTRUCTIONS / COM | MENTS: | | | | | |
|--|-------------------------------------|---|---|-------------------|--------------------|---|
| Please include the LAB ID CLIENT SAMPLE ID on a | and the CLIEN' dl final reports. | Γ SAMPLE ID Ple |) on all final reports. Please e-mail res | ults to lab@hall | environmental.com. | Please return all coolers and blue ice. Thank you.Please include the LAB ID and the |
| Relinquished By: Set | Date: 9/2/2 | 7 Time: 2:49 | Received By | 'जीय _र | حرروات | REPORT TRANSMITTAL DESIRED: |
| A Committee of the state of the | | Time. | Received By, | Date. | Time: | FOR LAB USE ONLY |
| Relinquished By: | Date. | Time: | Received By: | Date: | Time: | Temp of samples 7.7 C Attempt to Good ** |
| TAT: | Standard 🌠 | RU | ISH Next BD 2nd BD | 3rd | во | Temp of samples Aniempt to coor " |
| | | | And And | in the second | - American | Comments: |
| | | *************************************** | | | | |

SAMPLE RECEIPT CHECKLIST Cape Fear Analytical

| Clie | int: HALL | | | | Work Order: 8708 |
|----------|--|---------------|----------|----|--|
| Shi | oping Company: FULA | | | | Date/Time Received: 9 8/21 13:20 |
| Shi | pected Hazard Information pped as DOT Hazardous? pples identified as Foreign Soil? | Yes | NA | No | DOE Site Sample Packages Screened <0.5 mR/hr? Samples < 2x background? |
| | Sample Receipt Specifics sample in shipment? | Yes | NA | No | * Notify RSO of any responses in this column immediately. Air Witness: |
| | Sample Receipt Criteria | Yes | NA | No | Comments/Qualifiers (required for Non-Conforming Items) |
| 1 | Shipping containers received intact and sealed? | / | | | Circle Applicable: seals broken damaged container leaking container other(describe) |
| 2 | Custody seal/s present on cooler? | / | | | Seal intact? les No |
| 3 | Chain of Custody documents included with shipment? | V | | | |
| 4 | Samples requiring cold preservation within 0-6°C? | | | V | Preservation Method: Temperature Blank present: Yes (No ico bags loose ice bue ico dry ice none other (describe) |
| 5 | Aqueous samples found to have visible solids? | $\sqrt{}$ | | | Sample IDs, containers affected: All-Minimal Solids |
| 5 | Samples requiring chemical preservation at proper pH? | V | | | Sample IDs, containers affected and pH observed: Q - Pt |
| 7 | Samples requiring preservation have no residual chlorine? | V | | | Sample IDs, containers affected: If preservative added, Lot#: |
| 8 | Samples received within holding time? | / | | | Sample IDs, tests affected: |
| 9 | Sample IDs on COC match IDs on containers? | / | | | Sample IDs, containers affected: |
| 10 | Date & time of COC match date & time on containers? | V | | | Sample IDs, containers affected: |
| 11 | Number of containers received match number indicated on COC? | | | / | List type and number of containers (Sample IDs, containers affected: = 2 boths personnels (1) technology 2-1 Lamber - Plex Sample |
| 12 | COC form is properly signed in relinquished/received sections? | / | 1 | | |
| Cor | nments: | in the second | | | |
| <u> </u> | Checklist performed | by: Ir | nitials: | | Date: 4/8/2-/ CF-UD-F-7 |

Page 3 of 46 Work Order: 18708

Cynde Larkins

From:

Andy Freeman <andy@hallenvironmental.com>

Sent:

Wednesday, September 8, 2021 3:39 PM

To:

Cynde Larkins

Subject:

RE: 2109132

[EXTERNAL EMAIL] DO NOT CLICK links or attachments unless you recognize the sender and know the content is safe.

Please proceed with the analysis and note the temperature.

Thank you,

CFA WO#18708

Andy Freeman - Hall Environmental, 4901 Hawkins NE, Albuquerque, NM 87109, 505-345-3975, 505-345-4107 fax www.hallenvironmental.com - https://www.surveymonkey.com/r/NGVXRBV For easy access to all of your past reports, setup an account on the Hall Environmental Web Portal. Just visit our website and follow the instructions for setting up an account.

We welcome your feedback. Please visit the survey monkey link to complete a brief survey on your experience with Hall Environmental.

From: Cynde Larkins < Cynde. Larkins@cfanalytical.com>

Sent: Wednesday, September 8, 2021 1:39 PM **To:** Andy Freeman <andy@hallenvironmental.com>

Subject: 2109132

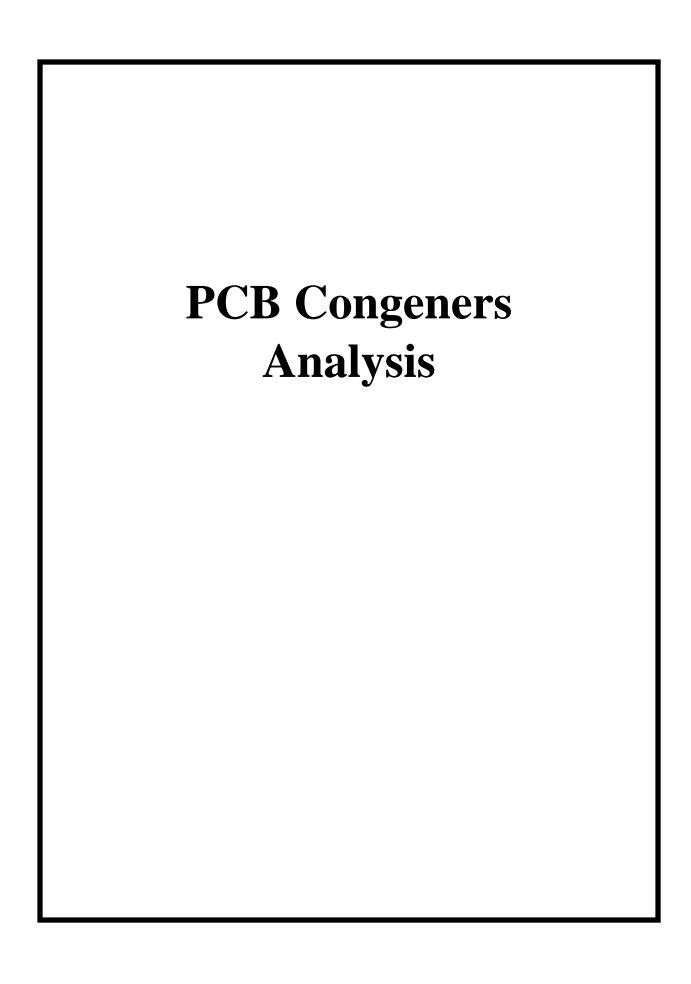
Andy,

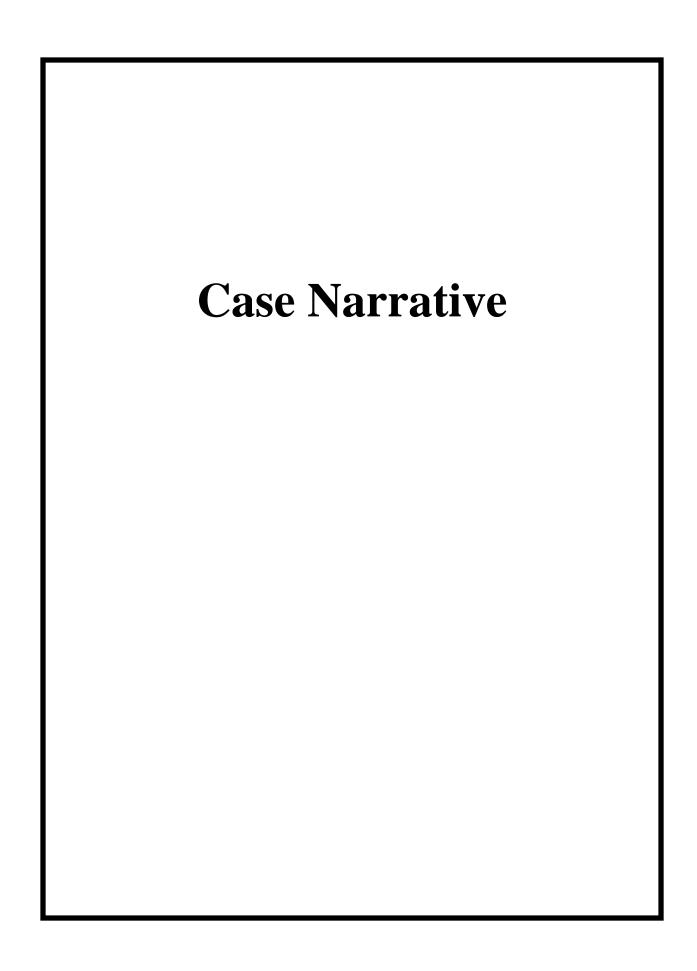
CFA received these samples today in good condition but out of temperature at 7.7°C. Please advise if the lab can proceed with extraction and analysis. Thank you,

Cynde Larkins Project Manager Cape Fear Analytical, LLC 3306 Kitty Hawk Road, Suite 120 Wilmington, NC 28405 (910) 795-0421



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PCBC Case Narrative Hall Environmental Analysis Laboratory (HALL) SDG 2109132 Work Order 18708

Method/Analysis Information

Product: PCB Congeners by EPA Method 1668A in Liquids

Analytical Method: EPA Method 1668A

Extraction Method: SW846 3520C

Analytical Batch Number: 47901 Clean Up Batch Number: 47899 Extraction Batch Number: 47898

I ID OF AD

Sample Analysis

Samples were received at 7.7°C. (18708001,18708002).

The following samples were analyzed using the analytical protocol as established in EPA Method 1668A:

| Sample ID | Client ID |
|-----------|--|
| 12030238 | Method Blank (MB) |
| 12030239 | Laboratory Control Sample (LCS) |
| 12030240 | Laboratory Control Sample Duplicate (LCSD) |
| 18708001 | 2109132-001G RG North-20210901 |
| 18708002 | 2109132-003G RG South-20210902 |

The samples in this SDG were analyzed on an "as received" basis.

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by Cape Fear Analytical LLC (CFA) as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with CF-OA-E-003 REV# 9.

Raw data reports are processed and reviewed by the analyst using the TargetLynx software package.

Calibration Information

Initial Calibration

All initial calibration requirements have been met for this sample delivery group (SDG).

Page 7 of 46 Work Order: 18708

Continuing Calibration Verification (CCV) Requirements

All associated calibration verification standard(s) (ICV or CCV) met the acceptance criteria.

Quality Control (QC) Information

Certification Statement

The test results presented in this document are certified to meet all requirements of the 2009 TNI Standard.

Method Blank (MB) Statement

The MB(s) analyzed with this SDG met the acceptance criteria.

Surrogate Recoveries

All surrogate recoveries were within the established acceptance criteria for this SDG.

Laboratory Control Sample (LCS) Recovery

The LCS spike recoveries met the acceptance limits.

Laboratory Control Sample Duplicate (LCSD) Recovery

The LCSD spike recoveries met the acceptance limits.

LCS/LCSD Relative Percent Difference (RPD) Statement

The RPD(s) between the LCS and LCSD met the acceptance limits.

QC Sample Designation

A matrix spike and matrix spike duplicate analysis was not required for this SDG.

Technical Information

Receipt Temperature

Samples were outside of the recommended range of 0-6°C. The client was notified of the temperature exceedance and the laboratory was instructed to proceed with analysis.

Holding Time Specifications

CFA assigns holding times based on the associated methodology, which assigns the date and time from sample collection. Those holding times expressed in hours are calculated in the AlphaLIMS system. Those holding times expressed as days expire at midnight on the day of expiration. All samples in this SDG met the specified holding time.

Preparation/Analytical Method Verification

All procedures were performed as stated in the SOP.

Sample Dilutions

The samples in this SDG did not require dilutions.

Page 8 of 46 Work Order: 18708

Sample Re-extraction/Re-analysis

Re-extractions or re-analyses were not required in this SDG.

Miscellaneous Information

Manual Integrations

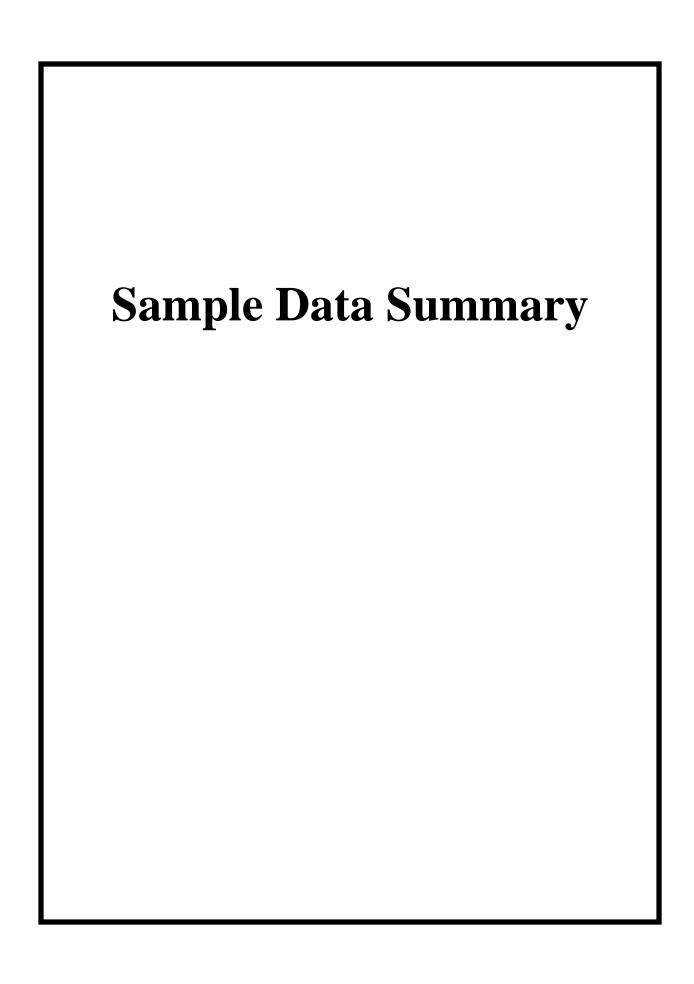
Manual integrations were required for data files in this SDG. Certain standards and QC samples required manual integrations to correctly position the baseline as set in the calibration standard injections. Where manual integrations were performed, copies of all manual integration peak profiles are included in the raw data section of this fraction.

System Configuration

This analysis was performed on the following instrument configuration:

Instrument ID Instrument System Configuration Column ID Column Description
HRP875_1 PCB Analysis PCB Analysis SPB-Octyl 30m x 0.25mm, 0.25mm

Page 9 of 46 Work Order: 18708



Cape Fear Analytical, LLC

3306 Kitty Hawk Road Suite 120, Wilmington, NC 28405 - (910) 795-0421 - www.capefearanalytical.com

Certificate of Analysis Report for

HALL001 Hall Environmental Analysis Laboratory Client SDG: 2109132 CFA Work Order: 18708

The Qualifiers in this report are defined as follows:

- * A quality control analyte recovery is outside of specified acceptance criteria
- ** Analyte is a surrogate compound
- B The target analyte was detected in the associated blank.
- C Congener has coeluters. When Cxxx, refer to congener number xxx for data
- J Value is estimated
- U Analyte was analyzed for, but not detected above the specified detection limit.

Review/Validation

Cape Fear Analytical requires all analytical data to be verified by a qualified data reviewer.

The following data validator verified the information presented in this case narrative:

Signature: Suhrie Name: Erin Suhrie

Date: 01 OCT 2021 Title: Data Validator

Page 11 of 46 Work Order: 18708

Page 1

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of 8

PCB Congeners Certificate of Analysis Sample Summary

SDG Number: 2109132 Lab Sample ID: 18708001 Client Sample: 1668A Water

32 Client: 001 Date Collect A Water Date Recei

Client: HALL001

Date Collected: 09/01/2021 10:05

Date Received: 09/08/2021 13:20

Project: Matrix:

Prep Basis:

HALL00113 WATER

As Received

Client ID:

2109132-001G RG North-20210901

Batch ID: 47901

Run Date: 09/23/2021 08:11 Data File: d22sep21a_2-4 Prep Batch: 47898

Analyst:

Prep Method:

Method:

EPA Method 1668A MJC

Instrument: HRP875 Dilution: 1

1

Prep Date:

21-SEP-21

Prep Method: SW846 3520C Prep Aliquot: 918.3 mL

Prep SOP Ref: CF-OA-E-001

109

218

218

109

109

109

109

218

109

109

109

2.83

1.85

1.89

1.81

1.81

1.85

1.68

1.96

2.13

1.92

1.89

pg/L

| CAS No. | Parmname | Qual | Result | Units | EDL | PQL |
|------------|----------|------|--------|-------|------|-----|
| 2051-60-7 | 1-MoCB | U | ND | pg/L | 1.26 | 109 |
| 2051-61-8 | 2-MoCB | U | ND | pg/L | 1.63 | 109 |
| 2051-62-9 | 3-MoCB | U | ND | pg/L | 1.57 | 109 |
| 13029-08-8 | 4-DiCB | U | ND | pg/L | 8.47 | 109 |
| 16605-91-7 | 5-DiCB | U | ND | pg/L | 6.23 | 109 |
| 25569-80-6 | 6-DiCB | U | ND | pg/L | 5.82 | 109 |
| 33284-50-3 | 7-DiCB | U | ND | pg/L | 5.31 | 109 |
| 34883-43-7 | 8-DiCB | U | ND | pg/L | 5.12 | 109 |
| 34883-39-1 | 9-DiCB | U | ND | pg/L | 6.73 | 109 |
| 33146-45-1 | 10-DiCB | U | ND | pg/L | 5.51 | 109 |
| 2050-67-1 | 11-DiCB | J | 41.6 | pg/L | 6.47 | 109 |
| 2974-92-7 | 12-DiCB | CU | ND | pg/L | 5.84 | 218 |
| 2974-90-5 | 13-DiCB | C12 | | | | |
| 34883-41-5 | 14-DiCB | U | ND | pg/L | 6.27 | 109 |
| 2050-68-2 | 15-DiCB | U | ND | pg/L | 6.49 | 109 |
| 38444-78-9 | 16-TrCB | U | ND | pg/L | 2.83 | 109 |
| 37680-66-3 | 17-TrCB | U | ND | pg/L | 2.74 | 109 |
| 37680-65-2 | 18-TrCB | CJ | 3.85 | pg/L | 2.31 | 218 |

ND

6.60

3.20

2.48

ND

ND

ND

ND

ND

5.10

ND

U

CJ

CJ

1

U

U

U

U

CU

C20

C26

C18

J

U

Comments:

38444-73-4

38444-84-7

55702-46-0

38444-85-8

55720-44-0

55702-45-9

55712-37-3

38444-81-4

38444-76-7

7012-37-5

15862-07-4

35693-92-6

16606-02-3

38444-77-8

19-TrCB

20-TrCB

21-TrCB

22-TrCB

23-TrCB

24-TrCB

25-TrCB

26-TrCB

27-TrCB

28-TrCB

29-TrCB

30-TrCB

31-TrCB

32-TrCB

- B The target analyte was detected in the associated blank.
- C Congener has coeluters. When Cxxx, refer to congener number xxx for data
- J Value is estimated
- U Analyte was analyzed for, but not detected above the specified detection limit.

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of 8

PCB Congeners Certificate of Analysis Sample Summary

SDG Number: 2109132 18708001 Lab Sample ID: 1668A Water **Client Sample:**

Client: **Date Collected: Date Received:**

HALL001 09/01/2021 10:05 09/08/2021 13:20

Project: Matrix:

Prep Basis:

HALL00113 WATER

As Received

Client ID:

2109132-001G RG North-20210901

Batch ID: 47901

09/23/2021 08:11 **Run Date:** Data File: d22sep21a_2-4

47898 Prep Batch: **Prep Date:** 21-SEP-21 Method: EPA Method 1668A **Analyst:**

MJC

SW846 3520C

Instrument: HRP875 Dilution: 1

Prep SOP Ref: CF-OA-E-001

Prep Method: Prep Aliquot: 918.3 mL

| rrep Date. | 21-SEF-21 | Trep miquot. | 710.5 IIIL | | | |
|------------|-----------|--------------|------------|-------|------|-----|
| CAS No. | Parmname | Qual | Result | Units | EDL | PQL |
| 38444-86-9 | 33-TrCB | C21 | | | | |
| 37680-68-5 | 34-TrCB | U | ND | pg/L | 2.20 | 109 |
| 37680-69-6 | 35-TrCB | U | ND | pg/L | 1.83 | 109 |
| 38444-87-0 | 36-TrCB | U | ND | pg/L | 1.59 | 109 |
| 38444-90-5 | 37-TrCB | U | ND | pg/L | 2.53 | 109 |
| 53555-66-1 | 38-TrCB | U | ND | pg/L | 1.81 | 109 |
| 38444-88-1 | 39-TrCB | U | ND | pg/L | 1.50 | 109 |
| 38444-93-8 | 40-TeCB | CU | ND | pg/L | 2.81 | 218 |
| 52663-59-9 | 41-TeCB | U | ND | pg/L | 4.18 | 109 |
| 36559-22-5 | 42-TeCB | U | ND | pg/L | 3.35 | 109 |
| 70362-46-8 | 43-TeCB | U | ND | pg/L | 4.53 | 109 |
| 41464-39-5 | 44-TeCB | CJ | 5.03 | pg/L | 3.03 | 327 |
| 70362-45-7 | 45-TeCB | CJ | 2.11 | pg/L | 1.81 | 218 |
| 41464-47-5 | 46-TeCB | U | ND | pg/L | 1.85 | 109 |
| 2437-79-8 | 47-TeCB | C44 | | | | |
| 70362-47-9 | 48-TeCB | U | ND | pg/L | 2.96 | 109 |
| 41464-40-8 | 49-TeCB | CU | ND | pg/L | 2.87 | 218 |
| 62796-65-0 | 50-TeCB | CU | ND | pg/L | 1.70 | 218 |
| 68194-04-7 | 51-TeCB | C45 | | | | |
| 35693-99-3 | 52-TeCB | U | ND | pg/L | 5.92 | 218 |
| 41464-41-9 | 53-TeCB | C50 | | | | |
| 15968-05-5 | 54-TeCB | U | ND | pg/L | 1.37 | 109 |
| 74338-24-2 | 55-TeCB | U | ND | pg/L | 1.66 | 109 |
| 41464-43-1 | 56-TeCB | U | ND | pg/L | 1.79 | 109 |
| 70424-67-8 | 57-TeCB | U | ND | pg/L | 1.76 | 109 |
| 41464-49-7 | 58-TeCB | U | ND | pg/L | 1.59 | 109 |
| 74472-33-6 | 59-TeCB | CU | ND | pg/L | 2.42 | 327 |
| 33025-41-1 | 60-TeCB | U | ND | pg/L | 1.59 | 109 |
| 33284-53-6 | 61-TeCB | ВСЈ | 7.21 | pg/L | 1.66 | 436 |
| 54230-22-7 | 62-TeCB | C59 | | | | |
| 74472-34-7 | 63-TeCB | U | ND | pg/L | 1.70 | 109 |
| 52663-58-8 | 64-TeCB | U | ND | pg/L | 2.24 | 109 |
| | | | | | | |

- The target analyte was detected in the associated blank.
- \mathbf{C} Congener has coeluters. When Cxxx, refer to congener number xxx for data
- Value is estimated J
- \mathbf{U} Analyte was analyzed for, but not detected above the specified detection limit.

SDG Number:

Report Date:

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of 8

PCB Congeners Certificate of Analysis Sample Summary

18708001 Lab Sample ID: 1668A Water **Client Sample: Client ID:**

2109132

2109132-001G RG North-20210901

Batch ID: 47901 09/23/2021 08:11 **Run Date:** Data File: d22sep21a_2-4

47898 Prep Batch: Prep Date: 21-SEP-21 Client: HALL001 09/01/2021 10:05 **Date Collected:** Date Received:

09/08/2021 13:20

EPA Method 1668A MJC

SW846 3520C **Prep Method: Prep Aliquot:** 918.3 mL

Method:

Analyst:

Project: Matrix:

HALL00113 WATER

As Received **Prep Basis:**

Instrument: HRP875 Dilution: 1

| Prep Date: | 21-SEP-21 | Prep Aliquot: | 918.3 mL | | | | |
|------------|-----------|---------------|----------|-------|------|-----|--|
| CAS No. | Parmname | Qual | Result | Units | EDL | PQL | |
| 33284-54-7 | 65-TeCB | C44 | | | | | |
| 32598-10-0 | 66-TeCB | U | ND | pg/L | 3.22 | 109 | |
| 73575-53-8 | 67-TeCB | U | ND | pg/L | 1.52 | 109 | |
| 73575-52-7 | 68-TeCB | U | ND | pg/L | 1.46 | 109 | |
| 60233-24-1 | 69-TeCB | C49 | | | | | |
| 32598-11-1 | 70-TeCB | C61 | | | | | |
| 41464-46-4 | 71-TeCB | C40 | | | | | |
| 41464-42-0 | 72-TeCB | U | ND | pg/L | 1.74 | 109 | |
| 74338-23-1 | 73-TeCB | U | ND | pg/L | 2.29 | 109 | |
| 32690-93-0 | 74-TeCB | C61 | | | | | |
| 32598-12-2 | 75-TeCB | C59 | | | | | |
| 70362-48-0 | 76-TeCB | C61 | | | | | |
| 32598-13-3 | 77-TeCB | U | ND | pg/L | 1.83 | 109 | |
| 70362-49-1 | 78-TeCB | U | ND | pg/L | 1.98 | 109 | |
| 41464-48-6 | 79-TeCB | U | ND | pg/L | 1.63 | 109 | |
| 33284-52-5 | 80-TeCB | U | ND | pg/L | 1.48 | 109 | |
| 70362-50-4 | 81-TeCB | U | ND | pg/L | 1.72 | 109 | |
| 52663-62-4 | 82-PeCB | U | ND | pg/L | 3.14 | 109 | |
| 60145-20-2 | 83-PeCB | U | ND | pg/L | 3.22 | 109 | |
| 52663-60-2 | 84-PeCB | U | ND | pg/L | 2.70 | 109 | |
| 65510-45-4 | 85-PeCB | CU | ND | pg/L | 2.05 | 327 | |
| 55312-69-1 | 86-PeCB | CJ | 5.03 | pg/L | 2.18 | 653 | |
| 38380-02-8 | 87-PeCB | C86 | | | | | |
| 55215-17-3 | 88-PeCB | CU | ND | pg/L | 2.59 | 218 | |
| 73575-57-2 | 89-PeCB | U | ND | pg/L | 3.20 | 109 | |
| 68194-07-0 | 90-PeCB | CU | ND | pg/L | 6.16 | 327 | |
| 68194-05-8 | 91-PeCB | C88 | | | | | |
| 52663-61-3 | 92-PeCB | U | ND | pg/L | 3.03 | 109 | |
| 73575-56-1 | 93-PeCB | CU | ND | pg/L | 2.33 | 218 | |
| 73575-55-0 | 94-PeCB | U | ND | pg/L | 2.46 | 109 | |
| 38379-99-6 | 95-PeCB | J | 4.97 | pg/L | 2.98 | 109 | |
| 73575-54-9 | 96-PeCB | U | ND | pg/L | 1.79 | 109 | |

- The target analyte was detected in the associated blank.
- \mathbf{C} Congener has coeluters. When Cxxx, refer to congener number xxx for data
- J Value is estimated
- \mathbf{U} Analyte was analyzed for, but not detected above the specified detection limit.

SDG Number:

Report Date:

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October 1, 2021

of 8

PCB Congeners Certificate of Analysis Sample Summary

18708001 Lab Sample ID: 1668A Water **Client Sample:**

Client ID: 2109132-001G RG North-20210901

2109132

Batch ID: 47901 09/23/2021 08:11 **Run Date:** Data File: d22sep21a_2-4

47898 Prep Batch: Prep Date: 21-SEP-21 Client: HALL001 09/01/2021 10:05 **Date Collected:** Date Received:

09/08/2021 13:20

EPA Method 1668A MJC

SW846 3520C **Prep Method:** 918.3 mL

Method:

Analyst:

HALL00113 **Project:** WATER Matrix:

As Received **Prep Basis:**

Instrument: HRP875 Dilution: 1

| Prep Date: | 21-SEP-21 | Prep Aliquot: | 918.3 mL | • | rep sor ner. | |
|------------|-----------|---------------|----------|-------|--------------|-----|
| CAS No. | Parmname | Qual | Result | Units | EDL | PQL |
| 41464-51-1 | 97-PeCB | C86 | | | | |
| 60233-25-2 | 98-PeCB | CU | ND | pg/L | 2.59 | 218 |
| 38380-01-7 | 99-PeCB | U | ND | pg/L | 2.05 | 109 |
| 39485-83-1 | 100-PeCB | C93 | | | | |
| 37680-73-2 | 101-PeCB | C90 | | | | |
| 68194-06-9 | 102-PeCB | C98 | | | | |
| 60145-21-3 | 103-PeCB | U | ND | pg/L | 2.70 | 109 |
| 56558-16-8 | 104-PeCB | U | ND | pg/L | 1.63 | 109 |
| 32598-14-4 | 105-PeCB | J | 3.85 | pg/L | 2.59 | 109 |
| 70424-69-0 | 106-PeCB | U | ND | pg/L | 2.81 | 109 |
| 70424-68-9 | 107-PeCB | U | ND | pg/L | 2.00 | 109 |
| 70362-41-3 | 108-PeCB | CU | ND | pg/L | 2.42 | 218 |
| 74472-35-8 | 109-PeCB | C86 | | | | |
| 38380-03-9 | 110-PeCB | CJ | 7.36 | pg/L | 1.96 | 218 |
| 39635-32-0 | 111-PeCB | U | ND | pg/L | 1.72 | 109 |
| 74472-36-9 | 112-PeCB | U | ND | pg/L | 1.94 | 109 |
| 68194-10-5 | 113-PeCB | C90 | | | | |
| 74472-37-0 | 114-PeCB | U | ND | pg/L | 2.44 | 109 |
| 74472-38-1 | 115-PeCB | C110 | | | | |
| 18259-05-7 | 116-PeCB | C85 | | | | |
| 68194-11-6 | 117-PeCB | C85 | | | | |
| 31508-00-6 | 118-PeCB | J | 5.38 | pg/L | 2.40 | 109 |
| 56558-17-9 | 119-PeCB | C86 | | | | |
| 68194-12-7 | 120-PeCB | U | ND | pg/L | 2.05 | 109 |
| 56558-18-0 | 121-PeCB | U | ND | pg/L | 1.76 | 109 |
| 76842-07-4 | 122-PeCB | U | ND | pg/L | 3.29 | 109 |
| 65510-44-3 | 123-PeCB | U | ND | pg/L | 2.40 | 109 |
| 70424-70-3 | 124-PeCB | C108 | | | | |
| 74472-39-2 | 125-PeCB | C86 | | | | |
| 57465-28-8 | 126-PeCB | U | ND | pg/L | 2.83 | 109 |
| 39635-33-1 | 127-PeCB | U | ND | pg/L | 2.66 | 109 |
| 38380-07-3 | 128-HxCB | CU | ND | pg/L | 1.87 | 218 |
| | | | | | | |

- The target analyte was detected in the associated blank.
- \mathbf{C} Congener has coeluters. When Cxxx, refer to congener number xxx for data
- J Value is estimated
- \mathbf{U} Analyte was analyzed for, but not detected above the specified detection limit.

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October 1, 2021

of 8

PCB Congeners Certificate of Analysis Sample Summary

SDG Number: 2109132 18708001 Lab Sample ID: 1668A Water **Client Sample:**

2109132-001G RG North-20210901 47901 09/23/2021 08:11

Data File: d22sep21a_2-4 47898 Prep Batch:

Client ID:

Batch ID:

Run Date:

Client: **Date Collected:** Date Received:

Method:

Analyst:

HALL001 09/01/2021 10:05 09/08/2021 13:20

EPA Method 1668A MJC

SW846 3520C **Prep Method:**

HALL00113 **Project:** WATER Matrix:

As Received **Prep Basis:**

Instrument: HRP875 Dilution: 1

| CAS No. Parmname Qual Result Units EDL 55215-18-4 129-HxCB CJ 22.1 pg/L 1.94 52663-66-8 130-HxCB U ND pg/L 2.37 61798-70-7 131-HxCB U ND pg/L 2.33 38380-05-1 132-HxCB J 4.31 pg/L 2.11 35694-04-3 133-HxCB U ND pg/L 2.40 52704-70-8 134-HxCB U ND pg/L 2.48 | PQL 327 109 |
|---|-------------------|
| 52663-66-8 130-HxCB U ND pg/L 2.37 61798-70-7 131-HxCB U ND pg/L 2.33 38380-05-1 132-HxCB J 4.31 pg/L 2.11 35694-04-3 133-HxCB U ND pg/L 2.40 | |
| 61798-70-7 131-HxCB U ND pg/L 2.33 38380-05-1 132-HxCB J 4.31 pg/L 2.11 35694-04-3 133-HxCB U ND pg/L 2.40 | 109 |
| 38380-05-1 132-HxCB J 4.31 pg/L 2.11 35694-04-3 133-HxCB U ND pg/L 2.40 | |
| 35694-04-3 133-HxCB U ND pg/L 2.40 | 109 |
| | 109 |
| 52704 70 8 124 HvCD | 109 |
| 52/04-70-6 134-fixeB U ND pg/L 2.46 | 109 |
| 52744-13-5 135-HxCB CU ND pg/L 6.71 | 218 |
| 38411-22-2 136-HxCB U ND pg/L 2.44 | 109 |
| 35694-06-5 137-HxCB U ND pg/L 1.79 | 109 |
| 35065-28-2 138-HxCB C129 | |
| 56030-56-9 139-HxCB CU ND pg/L 1.92 | 218 |
| 59291-64-4 140-HxCB C139 | |
| 52712-04-6 141-HxCB J 4.97 pg/L 2.13 | 109 |
| 41411-61-4 142-HxCB U ND pg/L 2.64 | 109 |
| 68194-15-0 143-HxCB U ND pg/L 2.81 | 109 |
| 68194-14-9 144-HxCB U ND pg/L 1.85 | 109 |
| 74472-40-5 145-HxCB U ND pg/L 1.24 | 109 |
| 51908-16-8 146-HxCB U ND pg/L 2.92 | 109 |
| 68194-13-8 147-HxCB CJ 14.6 pg/L 2.13 | 218 |
| 74472-41-6 148-HxCB U ND pg/L 1.79 | 109 |
| 38380-04-0 149-HxCB C147 | |
| 68194-08-1 150-HxCB U ND pg/L 1.22 | 109 |
| 52663-63-5 151-HxCB C135 | |
| 68194-09-2 152-HxCB U ND pg/L 1.42 | 109 |
| 35065-27-1 153-HxCB BCJ 20.3 pg/L 1.59 | 218 |
| 60145-22-4 154-HxCB U ND pg/L 1.48 | 109 |
| 33979-03-2 155-HxCB U ND pg/L 1.22 | 109 |
| 38380-08-4 156-HxCB BCJ 3.35 pg/L 2.03 | 218 |
| 69782-90-7 157-HxCB C156 | |
| 74472-42-7 158-HxCB U ND pg/L 1.76 | 109 |
| 39635-35-3 159-HxCB U ND pg/L 1.57 | 109 |
| 41411-62-5 160-HxCB U ND pg/L 1.66 | 109 |

- The target analyte was detected in the associated blank.
- \mathbf{C} Congener has coeluters. When Cxxx, refer to congener number xxx for data
- J Value is estimated
- \mathbf{U} Analyte was analyzed for, but not detected above the specified detection limit.

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PCB Congeners Certificate of Analysis Sample Summary

SDG Number: 2109132 18708001 Lab Sample ID: 1668A Water **Client Sample:**

Client ID:

2109132-001G RG North-20210901

Batch ID: 47901 09/23/2021 08:11 **Run Date:** Data File: d22sep21a_2-4 47898 Prep Batch:

Prep Date: 21-SEP-21 Client: HALL001 09/01/2021 10:05 **Date Collected:** Date Received:

09/08/2021 13:20

EPA Method 1668A MJC

SW846 3520C **Prep Method: Prep Aliquot:** 918.3 mL

Method:

Analyst:

HALL00113 **Project:** WATER Matrix:

As Received **Prep Basis:**

Instrument: HRP875 Dilution: 1

| Prep Date: | 21-SEP-21 | Prep Aliquot: | 918.3 mL | | | | |
|--------------------------|----------------------|---------------|----------|--------------|--------------|------------|--|
| CAS No. | Parmname | Qual | Result | Units | EDL | PQL | |
| 74472-43-8 | 161-HxCB | U | ND | pg/L | 1.76 | 109 | |
| 39635-34-2 | 162-HxCB | U | ND | pg/L | 1.42 | 109 | |
| 74472-44-9 | 163-HxCB | C129 | | | | | |
| 74472-45-0 | 164-HxCB | U | ND | pg/L | 1.70 | 109 | |
| 74472-46-1 | 165-HxCB | U | ND | pg/L | 1.59 | 109 | |
| 41411-63-6 | 166-HxCB | C128 | | | | | |
| 52663-72-6 | 167-HxCB | U | ND | pg/L | 1.50 | 109 | |
| 59291-65-5 | 168-HxCB | C153 | | | | | |
| 32774-16-6 | 169-HxCB | U | ND | pg/L | 1.72 | 109 | |
| 35065-30-6 | 170-НрСВ | J | 10.0 | pg/L | 2.05 | 109 | |
| 52663-71-5 | 171-HpCB | CU | ND | pg/L | 3.14 | 218 | |
| 52663-74-8 | 172-HpCB | U | ND | pg/L | 2.16 | 109 | |
| 68194-16-1 | 173-HpCB | C171 | | | | | |
| 38411-25-5 | 174-HpCB | J | 14.0 | pg/L | 2.03 | 109 | |
| 40186-70-7 | 175-HpCB | U | ND | pg/L | 2.05 | 109 | |
| 52663-65-7 | 176-HpCB | U | ND | pg/L | 1.61 | 109 | |
| 52663-70-4 | 177-HpCB | U | ND | pg/L | 7.95 | 109 | |
| 52663-67-9 | 178-НрСВ | U | ND | pg/L | 3.99 | 109 | |
| 52663-64-6 | 179-HpCB | U | ND | pg/L | 5.42 | 109 | |
| 35065-29-3 | 180-НрСВ | CJ | 25.4 | pg/L | 1.68 | 218 | |
| 74472-47-2 | 181-HpCB | U | ND | pg/L | 1.76 | 109 | |
| 60145-23-5 | 182-НрСВ | U | ND | pg/L | 1.98 | 109 | |
| 52663-69-1 | 183-НрСВ | CJ | 6.53 | pg/L | 1.85 | 218 | |
| 74472-48-3 | 184-НрСВ | U | ND | pg/L | 1.37 | 109 | |
| 52712-05-7 | 185-HpCB | C183 | | | | | |
| 74472-49-4 | 186-НрСВ | U | ND | pg/L | 1.48 | 109 | |
| 52663-68-0 | 187-НрСВ | J | 15.1 | pg/L | 1.74 | 109 | |
| 74487-85-7 | 188-НрСВ | U | ND | pg/L | 1.57 | 109 | |
| 39635-31-9 | 189-HpCB | U | ND | pg/L | 1.57 | 109 | |
| 41411-64-7 | 190-НрСВ | U | ND | pg/L | 3.18 | 109 | |
| 74472-50-7 | 191-HpCB | U | ND | pg/L | 1.57 | 109 | |
| 74472-51-8 | 192-НрСВ | U | ND | pg/L | 1.57 | 109 | |
| 41411-64-7 74472-50-7 | 190-HpCB 191-HpCB | U U | ND ND | pg/L pg/L | 3.18 1.57 | 109 109 | |

- The target analyte was detected in the associated blank.
- \mathbf{C} Congener has coeluters. When Cxxx, refer to congener number xxx for data
- J Value is estimated
- \mathbf{U} Analyte was analyzed for, but not detected above the specified detection limit.

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PCB Congeners Certificate of Analysis Sample Summary

2109132 SDG Number: 18708001 Lab Sample ID: 1668A Water **Client Sample:**

d22sep21a_2-4

Client ID: 2109132-001G RG North-20210901 **Batch ID:** 47901 09/23/2021 08:11 **Run Date:**

Prep Batch: 47898 **Prep Date:** 21-SEP-21

Data File:

Client: **Date Collected:** Date Received:

Method:

Analyst:

HALL001 09/01/2021 10:05 09/08/2021 13:20

EPA Method 1668A MJC

SW846 3520C **Prep Method:** Prep Aliquot: 918.3 mL

Project: HALL00113 WATER Matrix:

Prep Basis: As Received

Instrument: HRP875 Dilution: 1

| Trep Date. | 21-SE1 -21 | Trep imquoti | > 1010 III | | | |
|------------|---------------------|--------------|------------|-------|------|-----|
| CAS No. | Parmname | Qual | Result | Units | EDL | PQL |
| 69782-91-8 | 193-HpCB | C180 | | | | |
| 35694-08-7 | 194-OcCB | BJ | 7.08 | pg/L | 1.79 | 109 |
| 52663-78-2 | 195-OcCB | J | 3.20 | pg/L | 1.85 | 109 |
| 42740-50-1 | 196-OcCB | J | 3.35 | pg/L | 1.70 | 109 |
| 33091-17-7 | 197-OcCB | CU | ND | pg/L | 1.28 | 218 |
| 58194-17-2 | 198-OcCB | CJ | 8.04 | pg/L | 1.66 | 218 |
| 2663-75-9 | 199-OcCB | C198 | | | | |
| 2663-73-7 | 200-OcCB | C197 | | | | |
| 0186-71-8 | 201-OcCB | U | ND | pg/L | 1.28 | 109 |
| 136-99-4 | 202-OcCB | U | ND | pg/L | 1.85 | 109 |
| 2663-76-0 | 203-OcCB | ВЈ | 3.99 | pg/L | 1.48 | 109 |
| 1472-52-9 | 204-OcCB | U | ND | pg/L | 1.28 | 109 |
| 472-53-0 | 205-OcCB | U | ND | pg/L | 1.42 | 109 |
| 0186-72-9 | 206-NoCB | U | ND | pg/L | 2.48 | 109 |
| 2663-79-3 | 207-NoCB | U | ND | pg/L | 1.85 | 109 |
| 2663-77-1 | 208-NoCB | U | ND | pg/L | 1.92 | 109 |
|)51-24-3 | 209-DeCB | U | ND | pg/L | 1.81 | 109 |
| 336-36-3 | Total PCB Congeners | (J) | 270 | pg/L | | 109 |
| | | | | | | |

| Surrogate/Tracer recovery | Qual | Result | Nominal | Units | Recovery% | Acceptable Limits |
|---------------------------|-------|--------|---------|-------|-----------|-------------------|
| 13C-1-MoCB | | 780 | 2180 | pg/L | 35.8 | (15%-150%) |
| 13C-3-MoCB | | 864 | 2180 | pg/L | 39.7 | (15%-150%) |
| 13C-4-DiCB | | 1020 | 2180 | pg/L | 46.6 | (25%-150%) |
| 13C-15-DiCB | | 1360 | 2180 | pg/L | 62.4 | (25%-150%) |
| 13C-19-TrCB | | 1330 | 2180 | pg/L | 60.9 | (25%-150%) |
| 13C-37-TrCB | | 1340 | 2180 | pg/L | 61.7 | (25%-150%) |
| 13C-54-TeCB | | 1180 | 2180 | pg/L | 54.3 | (25%-150%) |
| 13C-77-TeCB | | 1930 | 2180 | pg/L | 88.6 | (25%-150%) |
| 13C-81-TeCB | | 1940 | 2180 | pg/L | 88.9 | (25%-150%) |
| 13C-104-PeCB | | 1060 | 2180 | pg/L | 48.9 | (25%-150%) |
| 13C-105-PeCB | | 1610 | 2180 | pg/L | 73.8 | (25%-150%) |
| 13C-114-PeCB | | 1590 | 2180 | pg/L | 72.8 | (25%-150%) |
| 13C-118-PeCB | | 1560 | 2180 | pg/L | 71.6 | (25%-150%) |
| 13C-123-PeCB | | 1650 | 2180 | pg/L | 76.0 | (25%-150%) |
| 13C-126-PeCB | | 1740 | 2180 | pg/L | 79.9 | (25%-150%) |
| 13C-155-HxCB | | 1240 | 2180 | pg/L | 57.0 | (25%-150%) |
| 13C-156-HxCB | C | 2620 | 4360 | pg/L | 60.2 | (25%-150%) |
| 13C-157-HxCB | C156L | | | | | |
| 13C-167-HxCB | | 1350 | 2180 | pg/L | 62.1 | (25%-150%) |
| 13C-169-HxCB | | 1400 | 2180 | pg/L | 64.1 | (25%-150%) |
| 13C-188-HpCB | | 1670 | 2180 | pg/L | 76.6 | (25%-150%) |
| 13C-189-HpCB | | 1460 | 2180 | pg/L | 67.0 | (25%-150%) |

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PCB Congeners Certificate of Analysis Sample Summary

MJC

SDG Number: 2109132 18708001 Lab Sample ID: 1668A Water **Client Sample:**

Client: **Date Collected: Date Received:**

HALL001 09/01/2021 10:05 09/08/2021 13:20

Project: Matrix:

Prep Basis:

HALL00113 WATER

As Received

Client ID:

Data File:

2109132-001G RG North-20210901

Batch ID: 47901 09/23/2021 08:11 **Run Date:**

Method: **Analyst:** EPA Method 1668A

Instrument: HRP875

Dilution:

d22sep21a_2-4 47898 Prep Batch: **Prep Date:**

Prep Method: Prep Aliquot: SW846 3520C

Prep SOP Ref: CF-OA-E-001

918.3 mL 21-SEP-21

| CAS No. | Parmname | | Qual | Result | | Units | EDL | PQL | |
|---------------------|----------|------|--------|---------|-------|-----------|---------|-------------|--|
| Surrogate/Tracer re | covery | Qual | Result | Nominal | Units | Recovery% | Accepta | able Limits | |
| 13C-202-OcCB | | | 1540 | 2180 | pg/L | 70.6 | (25% | 6-150%) | |
| 13C-205-OcCB | | | 1750 | 2180 | pg/L | 80.1 | (25% | 6-150%) | |
| 13C-206-NoCB | | | 1840 | 2180 | pg/L | 84.6 | (25% | 6-150%) | |
| 13C-208-NoCB | | | 1550 | 2180 | pg/L | 71.3 | (25% | 6-150%) | |
| 13C-209-DeCB | | | 1640 | 2180 | pg/L | 75.4 | (25% | 6-150%) | |
| 13C-28-TrCB | | | 1610 | 2180 | pg/L | 74.1 | (30% | 6-135%) | |
| 13C-111-PeCB | | | 1830 | 2180 | pg/L | 84.0 | (30% | 6-135%) | |
| 13C-178-HpCB | | | 1920 | 2180 | pg/L | 88.3 | (30% | 6-135%) | |

Comments:

- The target analyte was detected in the associated blank.
- \mathbf{C} Congener has coeluters. When Cxxx, refer to congener number xxx for data
- J Value is estimated
- Analyte was analyzed for, but not detected above the specified detection limit. U

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PCB Congeners Certificate of Analysis Sample Summary

SDG Number: 2109132 Lab Sample ID: 18708002 Client Sample: 1668A Water

32 Client:
002 Date Collected:
Water Date Received:

HALL001 09/02/2021 09:20 09/08/2021 13:20 Project: Matrix:

Prep Basis:

HALL00113 WATER

As Received

Client ID:

Data File:

2109132-003G RG South-20210902

Batch ID: 47901 Run Date: 09/23/

09/23/2021 09:21 d22sep21a_2-5

Analyst:
Prep Method:

Method:

EPA Method 1668A MJC

Instrument: HRP875 Dilution: 1

Prep SOP Ref: CF-OA-E-001

Prep Batch:47898Prep Method:SW846 3520CPrep Date:21-SEP-21Prep Aliquot:938.2 mL

| Prep Date: | 21-SEP-21 | Prep Aliquot: | 938.2 mL | | | | |
|------------|-----------|---------------|----------|-------|-------|-----|--|
| CAS No. | Parmname | Qual | Result | Units | EDL | PQL | |
| 2051-60-7 | 1-MoCB | J | 2.09 | pg/L | 0.938 | 107 | |
| 2051-61-8 | 2-MoCB | J | 2.03 | pg/L | 1.24 | 107 | |
| 2051-62-9 | 3-МоСВ | J | 3.07 | pg/L | 1.22 | 107 | |
| 13029-08-8 | 4-DiCB | U | ND | pg/L | 7.80 | 107 | |
| 16605-91-7 | 5-DiCB | U | ND | pg/L | 5.52 | 107 | |
| 25569-80-6 | 6-DiCB | U | ND | pg/L | 5.14 | 107 | |
| 33284-50-3 | 7-DiCB | U | ND | pg/L | 4.71 | 107 | |
| 34883-43-7 | 8-DiCB | U | ND | pg/L | 4.52 | 107 | |
| 34883-39-1 | 9-DiCB | U | ND | pg/L | 5.95 | 107 | |
| 33146-45-1 | 10-DiCB | U | ND | pg/L | 5.97 | 107 | |
| 2050-67-1 | 11-DiCB | J | 95.7 | pg/L | 5.71 | 107 | |
| 2974-92-7 | 12-DiCB | CU | ND | pg/L | 5.16 | 213 | |
| 2974-90-5 | 13-DiCB | C12 | | | | | |
| 34883-41-5 | 14-DiCB | U | ND | pg/L | 5.54 | 107 | |
| 2050-68-2 | 15-DiCB | J | 10.4 | pg/L | 6.25 | 107 | |
| 38444-78-9 | 16-TrCB | J | 4.05 | pg/L | 2.69 | 107 | |
| 37680-66-3 | 17-TrCB | U | ND | pg/L | 3.97 | 107 | |
| 37680-65-2 | 18-TrCB | CU | ND | pg/L | 8.68 | 213 | |
| 38444-73-4 | 19-TrCB | U | ND | pg/L | 2.39 | 107 | |
| 38444-84-7 | 20-TrCB | CU | ND | pg/L | 17.0 | 213 | |
| 55702-46-0 | 21-TrCB | CJ | 7.08 | pg/L | 1.79 | 213 | |
| 38444-85-8 | 22-TrCB | J | 5.59 | pg/L | 1.71 | 107 | |
| 55720-44-0 | 23-TrCB | U | ND | pg/L | 1.73 | 107 | |
| 55702-45-9 | 24-TrCB | U | ND | pg/L | 1.75 | 107 | |
| 55712-37-3 | 25-TrCB | U | ND | pg/L | 1.60 | 107 | |
| 38444-81-4 | 26-TrCB | CU | ND | pg/L | 3.01 | 213 | |
| 38444-76-7 | 27-TrCB | U | ND | pg/L | 2.03 | 107 | |
| 7012-37-5 | 28-TrCB | C20 | | | | | |
| 15862-07-4 | 29-TrCB | C26 | | | | | |
| 35693-92-6 | 30-TrCB | C18 | | | | | |
| 16606-02-3 | 31-TrCB | J | 12.5 | pg/L | 1.81 | 107 | |
| 38444-77-8 | 32-TrCB | J | 3.20 | pg/L | 1.79 | 107 | |
| | | | | | | | |

Comments:

- B The target analyte was detected in the associated blank.
- C Congener has coeluters. When Cxxx, refer to congener number xxx for data
- J Value is estimated
- U Analyte was analyzed for, but not detected above the specified detection limit.

SDG Number:

Client ID:

Report Date:

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PCB Congeners Certificate of Analysis Sample Summary

18708002 Lab Sample ID: 1668A Water **Client Sample:**

2109132

2109132-003G RG South-20210902

Batch ID: 47901 09/23/2021 09:21 **Run Date:** Data File: d22sep21a_2-5

47898 Prep Batch:

Client: HALL001 09/02/2021 09:20 **Date Collected:** Date Received:

09/08/2021 13:20

EPA Method 1668A MJC

SW846 3520C **Prep Method:** 020.2

Method:

Analyst:

HALL00113 **Project:** WATER Matrix:

Prep Basis: As Received

HRP875 Instrument: Dilution: 1

| Prep Date: | 21-SEP-21 | Prep Aliquot: | 938.2 mL | | | | |
|-------------------|-----------|---------------|----------|-------|------|-----|--|
| CAS No. | Parmname | Qual | Result | Units | EDL | PQL | |
| 38444-86-9 | 33-TrCB | C21 | | | | | |
| 37680-68-5 | 34-TrCB | U | ND | pg/L | 2.09 | 107 | |
| 37680-69-6 | 35-TrCB | U | ND | pg/L | 2.07 | 107 | |
| 38444-87-0 | 36-TrCB | U | ND | pg/L | 1.79 | 107 | |
| 38444-90-5 | 37-TrCB | J | 7.84 | pg/L | 2.28 | 107 | |
| 53555-66-1 | 38-TrCB | U | ND | pg/L | 2.05 | 107 | |
| 38444-88-1 | 39-TrCB | U | ND | pg/L | 1.71 | 107 | |
| 38444-93-8 | 40-TeCB | CJ | 5.90 | pg/L | 3.45 | 213 | |
| 52663-59-9 | 41-TeCB | U | ND | pg/L | 5.12 | 107 | |
| 36559-22-5 | 42-TeCB | J | 4.67 | pg/L | 4.11 | 107 | |
| 70362-46-8 | 43-TeCB | U | ND | pg/L | 5.54 | 107 | |
| 41464-39-5 | 44-TeCB | CJ | 19.9 | pg/L | 3.71 | 320 | |
| 70362-45-7 | 45-TeCB | CJ | 3.56 | pg/L | 1.96 | 213 | |
| 41464-47-5 | 46-TeCB | U | ND | pg/L | 2.03 | 107 | |
| 2437-79-8 | 47-TeCB | C44 | | | | | |
| 70362-47-9 | 48-TeCB | U | ND | pg/L | 3.62 | 107 | |
| 41464-40-8 | 49-TeCB | CJ | 10.7 | pg/L | 3.52 | 213 | |
| 62796-65-0 | 50-TeCB | CJ | 3.07 | pg/L | 1.85 | 213 | |
| 68194-04-7 | 51-TeCB | C45 | | | | | |
| 35693-99-3 | 52-TeCB | J | 35.8 | pg/L | 4.31 | 213 | |
| 41464-41-9 | 53-TeCB | C50 | | | | | |
| 15968-05-5 | 54-TeCB | U | ND | pg/L | 1.41 | 107 | |
| 74338-24-2 | 55-TeCB | U | ND | pg/L | 2.00 | 107 | |
| 41464-43-1 | 56-TeCB | J | 8.16 | pg/L | 2.17 | 107 | |
| 70424-67-8 | 57-TeCB | U | ND | pg/L | 2.15 | 107 | |
| 41464-49-7 | 58-TeCB | U | ND | pg/L | 1.92 | 107 | |
| 74472-33-6 | 59-TeCB | CU | ND | pg/L | 2.96 | 320 | |
| 33025-41-1 | 60-TeCB | J | 3.97 | pg/L | 1.94 | 107 | |
| 33284-53-6 | 61-TeCB | BCJ | 34.4 | pg/L | 2.00 | 426 | |
| 54230-22-7 | 62-TeCB | C59 | | | | | |
| 74472-34-7 | 63-TeCB | U | ND | pg/L | 2.07 | 107 | |
| 52663-58-8 | 64-TeCB | J | 8.16 | pg/L | 2.75 | 107 | |
| | | | | | | | |

- The target analyte was detected in the associated blank.
- \mathbf{C} Congener has coeluters. When Cxxx, refer to congener number xxx for data
- J Value is estimated
- \mathbf{U} Analyte was analyzed for, but not detected above the specified detection limit.

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PCB Congeners Certificate of Analysis Sample Summary

MJC

18708002 Lab Sample ID: 1668A Water **Client Sample:**

Client ID: 2109132-003G RG South-20210902

2109132

Batch ID: 47901

SDG Number:

09/23/2021 09:21 **Run Date:** Data File: d22sep21a_2-5

47898 Prep Batch: **Prep Date:**

Client: **Date Collected: Date Received:**

Method:

Analyst:

HALL001 09/02/2021 09:20 09/08/2021 13:20

EPA Method 1668A

Project: Matrix: HALL00113 WATER

Prep Basis:

As Received

Instrument:

HRP875 1

Dilution: Prep SOP Ref: CF-OA-E-001

SW846 3520C **Prep Method: Prep Aliquot:** 938.2 mL 21-SEP-21

| Prep Date: | 21-SEP-21 | rrep Anquot: | 930.2 IIIL | | | | |
|------------|-----------|--------------|------------|-------|------|-----|--|
| CAS No. | Parmname | Qual | Result | Units | EDL | PQL | |
| 33284-54-7 | 65-TeCB | C44 | | | | | |
| 32598-10-0 | 66-TeCB | J | 13.5 | pg/L | 2.03 | 107 | |
| 73575-53-8 | 67-TeCB | U | ND | pg/L | 1.83 | 107 | |
| 73575-52-7 | 68-TeCB | U | ND | pg/L | 1.77 | 107 | |
| 60233-24-1 | 69-TeCB | C49 | | | | | |
| 32598-11-1 | 70-TeCB | C61 | | | | | |
| 41464-46-4 | 71-TeCB | C40 | | | | | |
| 41464-42-0 | 72-TeCB | U | ND | pg/L | 2.11 | 107 | |
| 74338-23-1 | 73-TeCB | U | ND | pg/L | 2.79 | 107 | |
| 32690-93-0 | 74-TeCB | C61 | | | | | |
| 32598-12-2 | 75-TeCB | C59 | | | | | |
| 70362-48-0 | 76-TeCB | C61 | | | | | |
| 32598-13-3 | 77-TeCB | J | 6.31 | pg/L | 2.30 | 107 | |
| 70362-49-1 | 78-TeCB | U | ND | pg/L | 2.41 | 107 | |
| 11464-48-6 | 79-TeCB | U | ND | pg/L | 1.98 | 107 | |
| 33284-52-5 | 80-TeCB | U | ND | pg/L | 1.79 | 107 | |
| 70362-50-4 | 81-TeCB | U | ND | pg/L | 2.13 | 107 | |
| 52663-62-4 | 82-PeCB | J | 9.23 | pg/L | 5.73 | 107 | |
| 50145-20-2 | 83-PeCB | U | ND | pg/L | 5.90 | 107 | |
| 52663-60-2 | 84-PeCB | J | 13.1 | pg/L | 4.97 | 107 | |
| 55510-45-4 | 85-PeCB | CJ | 8.25 | pg/L | 3.75 | 320 | |
| 55312-69-1 | 86-PeCB | CJ | 47.1 | pg/L | 3.99 | 640 | |
| 38380-02-8 | 87-PeCB | C86 | | | | | |
| 55215-17-3 | 88-PeCB | CJ | 7.53 | pg/L | 4.75 | 213 | |
| 73575-57-2 | 89-PeCB | U | ND | pg/L | 5.86 | 107 | |
| 58194-07-0 | 90-PeCB | CJ | 63.7 | pg/L | 4.16 | 320 | |
| 8194-05-8 | 91-PeCB | C88 | | | | | |
| 2663-61-3 | 92-PeCB | J | 12.4 | pg/L | 5.52 | 107 | |
| 3575-56-1 | 93-PeCB | CU | ND | pg/L | 4.26 | 213 | |
| 73575-55-0 | 94-PeCB | U | ND | pg/L | 4.52 | 107 | |
| 38379-99-6 | 95-PeCB | J | 47.6 | pg/L | 5.46 | 107 | |
| 73575-54-9 | 96-PeCB | U | ND | pg/L | 1.79 | 107 | |

- The target analyte was detected in the associated blank.
- \mathbf{C} Congener has coeluters. When Cxxx, refer to congener number xxx for data
- J Value is estimated
- \mathbf{U} Analyte was analyzed for, but not detected above the specified detection limit.

As Received

HRP875

Prep SOP Ref: CF-OA-E-001

Prep Basis:

Instrument:

Dilution:

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of 8

PCB Congeners Certificate of Analysis Sample Summary

MJC

EPA Method 1668A

2109132 HALL001 HALL00113 SDG Number: Client: **Project:** 09/02/2021 09:20 18708002 WATER Lab Sample ID: **Date Collected:** Matrix: 1668A Water Date Received: 09/08/2021 13:20 **Client Sample:**

Method:

Analyst:

Client ID: 2109132-003G RG South-20210902

Batch ID: 47901 09/23/2021 09:21 **Run Date:** Data File: d22sep21a_2-5

520C Pr

| rep Batch: | 47898 | Prep Method: | SW846 35 |
|------------|-----------|---------------|----------|
| ren Date: | 21-SEP-21 | Prep Aliquot: | 938.2 mL |

| Prep Date: | 21-SEP-21 | Prep Aliquot: | 938.2 mL | | repoor nei. | |
|------------|-----------|---------------|----------|-------|-------------|-----|
| CAS No. | Parmname | Qual | Result | Units | EDL | PQL |
| 41464-51-1 | 97-PeCB | C86 | | | | |
| 60233-25-2 | 98-PeCB | CU | ND | pg/L | 4.75 | 213 |
| 38380-01-7 | 99-PeCB | J | 19.2 | pg/L | 3.77 | 107 |
| 39485-83-1 | 100-PeCB | C93 | | | | |
| 37680-73-2 | 101-PeCB | C90 | | | | |
| 68194-06-9 | 102-PeCB | C98 | | | | |
| 60145-21-3 | 103-PeCB | U | ND | pg/L | 4.95 | 107 |
| 56558-16-8 | 104-PeCB | U | ND | pg/L | 1.64 | 107 |
| 32598-14-4 | 105-PeCB | J | 32.6 | pg/L | 2.73 | 107 |
| 70424-69-0 | 106-PeCB | U | ND | pg/L | 2.98 | 107 |
| 70424-68-9 | 107-PeCB | U | ND | pg/L | 4.60 | 107 |
| 70362-41-3 | 108-PeCB | CU | ND | pg/L | 2.56 | 213 |
| 74472-35-8 | 109-PeCB | C86 | | | | |
| 38380-03-9 | 110-PeCB | CJ | 93.9 | pg/L | 3.58 | 213 |
| 39635-32-0 | 111-PeCB | U | ND | pg/L | 3.13 | 107 |
| 74472-36-9 | 112-PeCB | U | ND | pg/L | 3.54 | 107 |
| 68194-10-5 | 113-PeCB | C90 | | | | |
| 74472-37-0 | 114-PeCB | U | ND | pg/L | 2.66 | 107 |
| 74472-38-1 | 115-PeCB | C110 | | | | |
| 18259-05-7 | 116-PeCB | C85 | | | | |
| 68194-11-6 | 117-PeCB | C85 | | | | |
| 31508-00-6 | 118-PeCB | J | 64.2 | pg/L | 2.56 | 107 |
| 56558-17-9 | 119-PeCB | C86 | | | | |
| 68194-12-7 | 120-PeCB | U | ND | pg/L | 3.75 | 107 |
| 56558-18-0 | 121-PeCB | U | ND | pg/L | 3.22 | 107 |
| 76842-07-4 | 122-PeCB | U | ND | pg/L | 3.50 | 107 |
| 65510-44-3 | 123-PeCB | U | ND | pg/L | 2.54 | 107 |
| 70424-70-3 | 124-PeCB | C108 | | | | |
| 74472-39-2 | 125-PeCB | C86 | | | | |
| 57465-28-8 | 126-PeCB | U | ND | pg/L | 2.92 | 107 |
| 39635-33-1 | 127-PeCB | U | ND | pg/L | 2.84 | 107 |
| 38380-07-3 | 128-HxCB | CJ | 20.6 | pg/L | 2.69 | 213 |
| | | | | | | |

- The target analyte was detected in the associated blank.
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- J Value is estimated
- \mathbf{U} Analyte was analyzed for, but not detected above the specified detection limit.

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October 1, 2021

of 8

PCB Congeners Certificate of Analysis Sample Summary

SDG Number: 2109132 18708002 Lab Sample ID: 1668A Water **Client Sample:**

Client: **Date Collected: Date Received:**

HALL001 09/02/2021 09:20 09/08/2021 13:20

Project: Matrix:

Prep Basis:

HALL00113 WATER

As Received

Client ID: 2109132-003G RG South-20210902

Batch ID:

47901

Method: **Analyst:** EPA Method 1668A MJC

Instrument: HRP875 Dilution: 1

09/23/2021 09:21 **Run Date:** Data File: d22sep21a_2-5 47898 Prep Batch:

Prep Method:

SW846 3520C 938.2 mL

Prep SOP Ref: CF-OA-E-001

Prep Date: **Prep Aliquot:** 21-SEP-21

| Prep Date: | 21-SEP-21 | Prep Aliquot: | 938.2 mL | | | | |
|------------|-----------|---------------|----------|-------|------|-----|--|
| CAS No. | Parmname | Qual | Result | Units | EDL | PQL | |
| 55215-18-4 | 129-HxCB | CJ | 151 | pg/L | 2.88 | 320 | |
| 52663-66-8 | 130-HxCB | J | 7.74 | pg/L | 3.56 | 107 | |
| 61798-70-7 | 131-HxCB | U | ND | pg/L | 3.50 | 107 | |
| 38380-05-1 | 132-HxCB | J | 38.2 | pg/L | 3.15 | 107 | |
| 35694-04-3 | 133-HxCB | U | ND | pg/L | 3.58 | 107 | |
| 52704-70-8 | 134-HxCB | U | ND | pg/L | 4.73 | 107 | |
| 52744-13-5 | 135-HxCB | CJ | 38.2 | pg/L | 1.68 | 213 | |
| 38411-22-2 | 136-HxCB | J | 13.3 | pg/L | 1.41 | 107 | |
| 35694-06-5 | 137-HxCB | J | 4.73 | pg/L | 2.66 | 107 | |
| 35065-28-2 | 138-HxCB | C129 | | | | | |
| 56030-56-9 | 139-HxCB | CU | ND | pg/L | 2.86 | 213 | |
| 59291-64-4 | 140-HxCB | C139 | | | | | |
| 52712-04-6 | 141-HxCB | J | 25.4 | pg/L | 3.20 | 107 | |
| 41411-61-4 | 142-HxCB | U | ND | pg/L | 3.92 | 107 | |
| 68194-15-0 | 143-HxCB | U | ND | pg/L | 4.20 | 107 | |
| 68194-14-9 | 144-HxCB | J | 5.44 | pg/L | 1.79 | 107 | |
| 74472-40-5 | 145-HxCB | U | ND | pg/L | 1.19 | 107 | |
| 51908-16-8 | 146-HxCB | J | 16.6 | pg/L | 2.69 | 107 | |
| 68194-13-8 | 147-HxCB | CJ | 83.4 | pg/L | 3.18 | 213 | |
| 74472-41-6 | 148-HxCB | U | ND | pg/L | 1.75 | 107 | |
| 38380-04-0 | 149-HxCB | C147 | | | | | |
| 68194-08-1 | 150-HxCB | U | ND | pg/L | 1.19 | 107 | |
| 52663-63-5 | 151-HxCB | C135 | | | | | |
| 68194-09-2 | 152-HxCB | U | ND | pg/L | 1.39 | 107 | |
| 35065-27-1 | 153-HxCB | CJ | 105 | pg/L | 2.37 | 213 | |
| 60145-22-4 | 154-HxCB | U | ND | pg/L | 1.43 | 107 | |
| 33979-03-2 | 155-HxCB | U | ND | pg/L | 1.22 | 107 | |
| 38380-08-4 | 156-HxCB | ВСЈ | 16.1 | pg/L | 2.69 | 213 | |
| 69782-90-7 | 157-HxCB | C156 | | | | | |
| 74472-42-7 | 158-HxCB | J | 14.0 | pg/L | 2.17 | 107 | |
| 39635-35-3 | 159-HxCB | U | ND | pg/L | 2.11 | 107 | |
| 41411-62-5 | 160-HxCB | U | ND | pg/L | 2.45 | 107 | |
| | | | | | | | |

- The target analyte was detected in the associated blank.
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- J Value is estimated
- \mathbf{U} Analyte was analyzed for, but not detected above the specified detection limit.

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PCB Congeners Certificate of Analysis Sample Summary

Client: SDG Number: 2109132 18708002 09/02/2021 09:20 Lab Sample ID: **Date Collected:** 1668A Water **Date Received: Client Sample:**

Client ID: 2109132-003G RG South-20210902

Batch ID: 47901

09/23/2021 09:21 **Run Date:** Data File: d22sep21a_2-5

47898 Prep Batch: Prep Date: 21-SEP-21 HALL001

09/08/2021 13:20

EPA Method 1668A MJC

SW846 3520C **Prep Method: Prep Aliquot:** 938.2 mL

Method:

Analyst:

HALL00113 **Project:** WATER Matrix:

As Received **Prep Basis:**

Instrument: HRP875 Dilution: 1

Prep SOP Ref: CF-OA-E-001

| Prep Date: | 21-SEP-21 | Prep Aliquot: | 938.2 mL | | | | |
|------------|-----------|---------------|----------|-------|------|-----|--|
| CAS No. | Parmname | Qual | Result | Units | EDL | PQL | |
| 74472-43-8 | 161-HxCB | U | ND | pg/L | 2.64 | 107 | |
| 39635-34-2 | 162-HxCB | U | ND | pg/L | 1.92 | 107 | |
| 74472-44-9 | 163-HxCB | C129 | | | | | |
| 74472-45-0 | 164-HxCB | J | 10.3 | pg/L | 2.54 | 107 | |
| 74472-46-1 | 165-HxCB | U | ND | pg/L | 2.37 | 107 | |
| 41411-63-6 | 166-HxCB | C128 | | | | | |
| 52663-72-6 | 167-HxCB | J | 6.35 | pg/L | 2.03 | 107 | |
| 59291-65-5 | 168-HxCB | C153 | | | | | |
| 32774-16-6 | 169-HxCB | U | ND | pg/L | 2.26 | 107 | |
| 35065-30-6 | 170-НрСВ | J | 40.6 | pg/L | 2.64 | 107 | |
| 52663-71-5 | 171-HpCB | CJ | 12.3 | pg/L | 2.77 | 213 | |
| 52663-74-8 | 172-HpCB | U | ND | pg/L | 9.55 | 107 | |
| 68194-16-1 | 173-HpCB | C171 | | | | | |
| 38411-25-5 | 174-HpCB | J | 42.6 | pg/L | 2.62 | 107 | |
| 40186-70-7 | 175-HpCB | U | ND | pg/L | 1.85 | 107 | |
| 52663-65-7 | 176-HpCB | J | 3.90 | pg/L | 1.47 | 107 | |
| 52663-70-4 | 177-НрСВ | J | 27.4 | pg/L | 2.75 | 107 | |
| 52663-67-9 | 178-HpCB | J | 9.06 | pg/L | 2.00 | 107 | |
| 52663-64-6 | 179-HpCB | J | 16.2 | pg/L | 1.43 | 107 | |
| 35065-29-3 | 180-НрСВ | CJ | 92.0 | pg/L | 2.15 | 213 | |
| 74472-47-2 | 181-HpCB | U | ND | pg/L | 2.28 | 107 | |
| 60145-23-5 | 182-HpCB | U | ND | pg/L | 1.79 | 107 | |
| 52663-69-1 | 183-НрСВ | CJ | 26.5 | pg/L | 2.39 | 213 | |
| 74472-48-3 | 184-HpCB | U | ND | pg/L | 1.24 | 107 | |
| 52712-05-7 | 185-HpCB | C183 | | | | | |
| 74472-49-4 | 186-HpCB | U | ND | pg/L | 1.34 | 107 | |
| 52663-68-0 | 187-HpCB | J | 47.2 | pg/L | 1.58 | 107 | |
| 74487-85-7 | 188-HpCB | U | ND | pg/L | 1.49 | 107 | |
| 39635-31-9 | 189-HpCB | U | ND | pg/L | 2.34 | 107 | |
| 41411-64-7 | 190-HpCB | J | 9.61 | pg/L | 1.96 | 107 | |
| 74472-50-7 | 191-HpCB | U | ND | pg/L | 2.03 | 107 | |
| 74472-51-8 | 192-HpCB | U | ND | pg/L | 2.00 | 107 | |
| | | | | | | | |

- The target analyte was detected in the associated blank.
- \mathbf{C} Congener has coeluters. When Cxxx, refer to congener number xxx for data
- J Value is estimated
- \mathbf{U} Analyte was analyzed for, but not detected above the specified detection limit.

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PCB Congeners Certificate of Analysis Sample Summary

2109132 SDG Number: 18708002 Lab Sample ID: 1668A Water **Client Sample:**

2109132-003G RG South-20210902

Batch ID: 47901 09/23/2021 09:21 **Run Date:** Data File: d22sep21a_2-5

Prep Batch: 47898 **Prep Date:** 21-SEP-21

Client ID:

Client: **Date Collected:** Date Received:

Method:

Analyst:

HALL001 09/02/2021 09:20 09/08/2021 13:20

EPA Method 1668A MJC

SW846 3520C **Prep Method:** Prep Aliquot: 938.2 mL

Project: HALL00113 WATER Matrix:

Prep Basis: As Received

Instrument: HRP875 Dilution: 1

Prep SOP Ref: CF-OA-E-001

| Trep Date. | 21-SE1 -21 | Trop Imquoti | , co. III | | | |
|------------|---------------------|----------------|-----------|-------|------|-----|
| CAS No. | Parmname | Qual | Result | Units | EDL | PQL |
| 69782-91-8 | 193-НрСВ | C180 | | | | |
| 35694-08-7 | 194-OcCB | BJ | 22.0 | pg/L | 1.98 | 107 |
| 52663-78-2 | 195-OcCB | J | 8.83 | pg/L | 2.07 | 107 |
| 42740-50-1 | 196-OcCB | J | 10.4 | pg/L | 1.88 | 107 |
| 33091-17-7 | 197-OcCB | CJ | 4.01 | pg/L | 1.43 | 213 |
| 68194-17-2 | 198-OcCB | CJ | 21.9 | pg/L | 1.83 | 213 |
| 52663-75-9 | 199-OcCB | C198 | | | | |
| 52663-73-7 | 200-OcCB | C197 | | | | |
| 40186-71-8 | 201-OcCB | J | 2.54 | pg/L | 1.41 | 107 |
| 2136-99-4 | 202-OcCB | J | 5.09 | pg/L | 1.62 | 107 |
| 52663-76-0 | 203-OcCB | BJ | 13.2 | pg/L | 1.66 | 107 |
| 74472-52-9 | 204-OcCB | U | ND | pg/L | 1.43 | 107 |
| 74472-53-0 | 205-OcCB | U | ND | pg/L | 1.83 | 107 |
| 40186-72-9 | 206-NoCB | J | 9.64 | pg/L | 2.98 | 107 |
| 52663-79-3 | 207-NoCB | U | ND | pg/L | 2.22 | 107 |
| 52663-77-1 | 208-NoCB | U | ND | pg/L | 4.22 | 107 |
| 2051-24-3 | 209-DeCB | J | 7.97 | pg/L | 1.79 | 107 |
| 1336-36-3 | Total PCB Congeners | <mark>J</mark> | 1720 | pg/L | | 107 |
| | | | | | | |

| Surrogate/Tracer recovery | Qual | Result | Nominal | Units | Recovery% | Acceptable Limits |
|---------------------------|-------|--------|---------|-------|-----------|-------------------|
| 13C-1-MoCB | | 909 | 2130 | pg/L | 42.6 | (15%-150%) |
| 13C-3-MoCB | | 980 | 2130 | pg/L | 46.0 | (15%-150%) |
| 13C-4-DiCB | | 1170 | 2130 | pg/L | 55.0 | (25%-150%) |
| 13C-15-DiCB | | 1310 | 2130 | pg/L | 61.5 | (25%-150%) |
| 13C-19-TrCB | | 1350 | 2130 | pg/L | 63.5 | (25%-150%) |
| 13C-37-TrCB | | 1300 | 2130 | pg/L | 61.1 | (25%-150%) |
| 13C-54-TeCB | | 1120 | 2130 | pg/L | 52.7 | (25%-150%) |
| 13C-77-TeCB | | 1820 | 2130 | pg/L | 85.4 | (25%-150%) |
| 13C-81-TeCB | | 1850 | 2130 | pg/L | 86.7 | (25%-150%) |
| 13C-104-PeCB | | 954 | 2130 | pg/L | 44.8 | (25%-150%) |
| 13C-105-PeCB | | 1470 | 2130 | pg/L | 69.1 | (25%-150%) |
| 13C-114-PeCB | | 1460 | 2130 | pg/L | 68.4 | (25%-150%) |
| 13C-118-PeCB | | 1430 | 2130 | pg/L | 67.0 | (25%-150%) |
| 13C-123-PeCB | | 1500 | 2130 | pg/L | 70.2 | (25%-150%) |
| 13C-126-PeCB | | 1670 | 2130 | pg/L | 78.2 | (25%-150%) |
| 13C-155-HxCB | | 1100 | 2130 | pg/L | 51.5 | (25%-150%) |
| 13C-156-HxCB | C | 2420 | 4260 | pg/L | 56.6 | (25%-150%) |
| 13C-157-HxCB | C156L | | | | | |
| 13C-167-HxCB | | 1230 | 2130 | pg/L | 57.6 | (25%-150%) |
| 13C-169-HxCB | | 1340 | 2130 | pg/L | 62.8 | (25%-150%) |
| 13C-188-HpCB | | 1440 | 2130 | pg/L | 67.4 | (25%-150%) |
| 13C-189-HpCB | | 1360 | 2130 | pg/L | 63.6 | (25%-150%) |

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PCB Congeners Certificate of Analysis Sample Summary

2109132 SDG Number: 18708002 Lab Sample ID: 1668A Water **Client Sample:**

Client: **Date Collected: Date Received:**

HALL001 09/02/2021 09:20 09/08/2021 13:20

Project: Matrix:

Prep Basis:

HALL00113 WATER

As Received

Client ID:

CAS No.

2109132-003G RG South-20210902

Batch ID: 47901 Method: Analyst: EPA Method 1668A

Instrument: HRP875

09/23/2021 09:21 **Run Date:** Data File: d22sep21a_2-5 47898 Prep Batch:

Prep Method:

Qual

Dilution:

Prep SOP Ref: CF-OA-E-001

Prep Date: 21-SEP-21

Prep Aliquot: Parmname

938.2 mL

Result

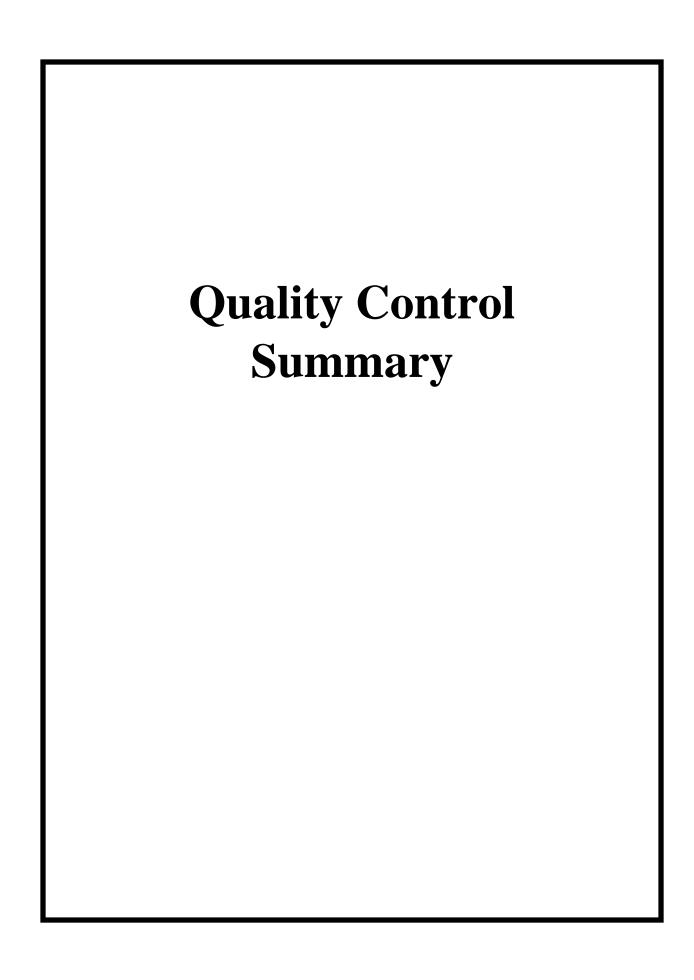
SW846 3520C

MJC

Units \mathbf{EDL} **PQL**

| Surrogate/Tracer recovery | Qual | Result | Nominal | Units | Recovery% | Acceptable Limits |
|---------------------------|------|--------|---------|-------|-----------|-------------------|
| 13C-202-OcCB | | 1320 | 2130 | pg/L | 61.9 | (25%-150%) |
| 13C-205-OcCB | | 1540 | 2130 | pg/L | 72.4 | (25%-150%) |
| 13C-206-NoCB | | 1650 | 2130 | pg/L | 77.4 | (25%-150%) |
| 3C-208-NoCB | | 1400 | 2130 | pg/L | 65.5 | (25%-150%) |
| 3C-209-DeCB | | 1440 | 2130 | pg/L | 67.5 | (25%-150%) |
| 3C-28-TrCB | | 1590 | 2130 | pg/L | 74.4 | (30%-135%) |
| 3C-111-PeCB | | 1750 | 2130 | pg/L | 82.0 | (30%-135%) |
| 3С-178-НрСВ | | 1840 | 2130 | pg/L | 86.5 | (30%-135%) |

- The target analyte was detected in the associated blank.
- \mathbf{C} Congener has coeluters. When Cxxx, refer to congener number xxx for data
- J Value is estimated
- \mathbf{U} Analyte was analyzed for, but not detected above the specified detection limit.



of 3

Page 1

PCB Congeners Surrogate Recovery Report

SDG Number: 2109132 Matrix Type: LIQUID

| Sample ID | Client ID | Surrogate | QUAL | Recovery (%) | Acceptance Limits |
|-----------|----------------------|--------------|-------|--------------|----------------------|
| 2030239 | LCS for batch 47898 | 13C-1-MoCB | | 53.1 | (15%-140%) |
| | | 13C-3-MoCB | | 58.3 | (15%-140%) |
| | | 13C-4-DiCB | | 67.2 | (30%-140%) |
| | | 13C-15-DiCB | | 80.8 | (30%-140%) |
| | | 13C-19-TrCB | | 85.3 | (30%-140%) |
| | | 13C-37-TrCB | | 64.0 | (30%-140%) |
| | | 13C-54-TeCB | | 57.2 | (30%-140%) |
| | | 13C-77-TeCB | | 84.3 | (30%-140%) |
| | | 13C-81-TeCB | | 85.6 | (30%-140%) |
| | | 13C-104-PeCB | | 55.9 | (30%-140%) |
| | | 13C-105-PeCB | | 69.7 | (30%-140%) |
| | | 13C-114-PeCB | | 70.5 | (30%-140%) |
| | | 13C-118-PeCB | | 68.8 | (30%-140%) |
| | | 13C-123-PeCB | | 73.0 | (30%-140%) |
| | | 13C-126-PeCB | | 75.6 | (30%-140%) |
| | | 13C-155-HxCB | | 65.9 | (30%-140%) |
| | | 13C-156-HxCB | C | 65.4 | (30%-140%) |
| | | 13C-157-HxCB | C156L | | |
| | | 13C-167-HxCB | | 66.8 | (30%-140%) |
| | | 13C-169-HxCB | | 67.6 | (30%-140%) |
| | | 13C-188-HpCB | | 83.6 | (30%-140%) |
| | | 13C-189-HpCB | | 71.4 | (30%-140%) |
| | | 13C-202-OcCB | | 77.8 | (30%-140%) |
| | | 13C-205-OcCB | | 84.9 | (30%-140%) |
| | | 13C-206-NoCB | | 90.1 | (30%-140%) |
| | | 13C-208-NoCB | | 77.1 | (30%-140%) |
| | | 13C-209-DeCB | | 82.2 | (30%-140%) |
| | | 13C-28-TrCB | | 77.2 | (40%-125%) |
| | | 13C-111-PeCB | | 87.1 | (40%-125%) |
| | | 13С-178-НрСВ | | 98.3 | (40%-125%) |
| 030240 | LCSD for batch 47898 | 13C-1-MoCB | | 51.1 | (15%-140%) |
| | | 13C-3-MoCB | | 58.1 | (15%-140%) |
| | | 13C-4-DiCB | | 67.8 | (30%-140%) |
| | | 13C-15-DiCB | | 83.4 | (30%-140%) |
| | | 13C-19-TrCB | | 84.3 | (30%-140%) |
| | | 13C-37-TrCB | | 66.1 | (30%-140%) |
| | | 13C-54-TeCB | | 58.5 | (30%-140%) |
| | | 13C-77-TeCB | | 85.7 | (30%-140%) |
| | | 13C-81-TeCB | | 87.1 | (30%-140%) |
| | | 13C-104-PeCB | | 54.9 | (30%-140%) |
| | | 13C-105-PeCB | | 70.2 | (30%-140%) |
| | | 13C-114-PeCB | | 70.1 | (30%-140%) |
| | | 13C-118-PeCB | | 68.4 | (30%-140%) |
| | | 13C-123-PeCB | | 72.6 | (30%-140%) |
| | | 13C-126-PeCB | | 74.8 | (30%-140%) |
| | | 13C-155-HxCB | | 63.3 | (30%-140%) |
| | | 13C-156-HxCB | С | 63.6 | (30%-140%) |
| | | 13C-157-HxCB | C156L | | |
| | | 13C-167-HxCB | | 64.4 | (30%-140%) |
| | | 13C-169-HxCB | | 66.2 | (30%-140%) |
| | | 13C-188-HpCB | | 81.7 | (30%-140%) |
| | | 13C-189-HpCB | | 69.5 | (30%-140%) |

of 3

Page 2

PCB Congeners Surrogate Recovery Report

SDG Number: 2109132 Matrix Type: LIQUID

| Sample ID | Client ID | Surrogate | QUAL | Recovery (%) | Acceptance Limits |
|-----------|--------------------------------|--------------|-------|--------------|----------------------|
| 2030240 | LCSD for batch 47898 | 13C-202-OcCB | | 76.3 | (30%-140%) |
| | | 13C-205-OcCB | | 81.2 | (30%-140%) |
| | | 13C-206-NoCB | | 84.7 | (30%-140%) |
| | | 13C-208-NoCB | | 75.5 | (30%-140%) |
| | | 13C-209-DeCB | | 77.0 | (30%-140%) |
| | | 13C-28-TrCB | | 71.3 | (40%-125%) |
| | | 13C-111-PeCB | | 80.9 | (40%-125%) |
| | | 13C-178-HpCB | | 86.5 | (40%-125%) |
| 030238 | MB for batch 47898 | 13C-1-MoCB | | 36.6 | (15%-150%) |
| | | 13C-3-MoCB | | 39.9 | (15%-150%) |
| | | 13C-4-DiCB | | 47.9 | (25%-150%) |
| | | 13C-15-DiCB | | 60.2 | (25%-150%) |
| | | 13C-19-TrCB | | 59.9 | (25%-150%) |
| | | 13C-37-TrCB | | 52.5 | (25%-150%) |
| | | 13C-54-TeCB | | 47.0 | (25%-150%) |
| | | 13C-77-TeCB | | 68.3 | (25%-150%) |
| | | 13C-81-TeCB | | 68.5 | (25%-150%) |
| | | 13C-104-PeCB | | 44.0 | (25%-150%) |
| | | 13C-105-PeCB | | 57.8 | (25%-150%) |
| | | 13C-114-PeCB | | 57.7 | (25%-150%) |
| | | 13C-118-PeCB | | 56.2 | (25%-150%) |
| | | 13C-123-PeCB | | 59.2 | (25%-150%) |
| | | 13C-126-PeCB | | 60.9 | (25%-150%) |
| | | 13C-155-HxCB | | 50.0 | (25%-150%) |
| | | 13C-156-HxCB | C | 49.2 | (25%-150%) |
| | | 13C-157-HxCB | C156L | | |
| | | 13C-167-HxCB | | 50.2 | (25%-150%) |
| | | 13C-169-HxCB | | 51.5 | (25%-150%) |
| | | 13C-188-HpCB | | 67.2 | (25%-150%) |
| | | 13C-189-HpCB | | 55.8 | (25%-150%) |
| | | 13C-202-OcCB | | 59.6 | (25%-150%) |
| | | 13C-205-OcCB | | 65.5 | (25%-150%) |
| | | 13C-206-NoCB | | 69.3 | (25%-150%) |
| | | 13C-208-NoCB | | 61.0 | (25%-150%) |
| | | 13C-209-DeCB | | 62.0 | (25%-150%) |
| | | 13C-28-TrCB | | 60.1 | (30%-135%) |
| | | 13C-111-PeCB | | 69.1 | (30%-135%) |
| | | 13C-178-HpCB | | 73.3 | (30%-135%) |
| 708001 | 2109132-001G RG North-20210901 | 13C-1-MoCB | | 35.8 | (15%-150%) |
| | | 13C-3-MoCB | | 39.7 | (15%-150%) |
| | | 13C-4-DiCB | | 46.6 | (25%-150%) |
| | | 13C-15-DiCB | | 62.4 | (25%-150%) |
| | | 13C-19-TrCB | | 60.9 | (25%-150%) |
| | | 13C-37-TrCB | | 61.7 | (25%-150%) |
| | | 13C-54-TeCB | | 54.3 | (25%-150%) |
| | | 13C-77-TeCB | | 88.6 | (25%-150%) |
| | | 13C-81-TeCB | | 88.9 | (25%-150%) |
| | | 13C-104-PeCB | | 48.9 | (25%-150%) |
| | | 13C-105-PeCB | | 73.8 | (25%-150%) |
| | | 13C-114-PeCB | | 72.8 | (25%-150%) |
| | | 13C-118-PeCB | | 71.6 | (25%-150%) |

of 3

Page 3

PCB Congeners Surrogate Recovery Report

SDG Number: 2109132 Matrix Type: LIQUID

| Sample ID | Client ID | Surrogate | QUAL | Recovery (%) | Acceptance Limits |
|-----------|--------------------------------|--------------|-------|--------------|----------------------|
| 3708001 | 2109132-001G RG North-20210901 | 13C-123-PeCB | | 76.0 | (25%-150%) |
| | | 13C-126-PeCB | | 79.9 | (25%-150%) |
| | | 13C-155-HxCB | | 57.0 | (25%-150%) |
| | | 13C-156-HxCB | C | 60.2 | (25%-150%) |
| | | 13C-157-HxCB | C156L | | |
| | | 13C-167-HxCB | | 62.1 | (25%-150%) |
| | | 13C-169-HxCB | | 64.1 | (25%-150%) |
| | | 13C-188-HpCB | | 76.6 | (25%-150%) |
| | | 13C-189-HpCB | | 67.0 | (25%-150%) |
| | | 13C-202-OcCB | | 70.6 | (25%-150%) |
| | | 13C-205-OcCB | | 80.1 | (25%-150%) |
| | | 13C-206-NoCB | | 84.6 | (25%-150%) |
| | | 13C-208-NoCB | | 71.3 | (25%-150%) |
| | | 13C-209-DeCB | | 75.4 | (25%-150%) |
| | | 13C-28-TrCB | | 74.1 | (30%-135%) |
| | | 13C-111-PeCB | | 84.0 | (30%-135%) |
| | | 13C-178-HpCB | | 88.3 | (30%-135%) |
| 708002 | 2109132-003G RG South-20210902 | 13C-1-MoCB | | 42.6 | (15%-150%) |
| | | 13C-3-MoCB | | 46.0 | (15%-150%) |
| | | 13C-4-DiCB | | 55.0 | (25%-150%) |
| | | 13C-15-DiCB | | 61.5 | (25%-150%) |
| | | 13C-19-TrCB | | 63.5 | (25%-150%) |
| | | 13C-37-TrCB | | 61.1 | (25%-150%) |
| | | 13C-54-TeCB | | 52.7 | (25%-150%) |
| | | 13C-77-TeCB | | 85.4 | (25%-150%) |
| | | 13C-81-TeCB | | 86.7 | (25%-150%) |
| | | 13C-104-PeCB | | 44.8 | (25%-150%) |
| | | 13C-105-PeCB | | 69.1 | (25%-150%) |
| | | 13C-114-PeCB | | 68.4 | (25%-150%) |
| | | 13C-118-PeCB | | 67.0 | (25%-150%) |
| | | 13C-123-PeCB | | 70.2 | (25%-150%) |
| | | 13C-126-PeCB | | 78.2 | (25%-150%) |
| | | 13C-155-HxCB | | 51.5 | (25%-150%) |
| | | 13C-156-HxCB | С | 56.6 | (25%-150%) |
| | | 13C-157-HxCB | C156L | | , |
| | | 13C-167-HxCB | | 57.6 | (25%-150%) |
| | | 13C-169-HxCB | | 62.8 | (25%-150%) |
| | | 13C-188-HpCB | | 67.4 | (25%-150%) |
| | | 13C-189-HpCB | | 63.6 | (25%-150%) |
| | | 13C-202-OcCB | | 61.9 | (25%-150%) |
| | | 13C-205-OcCB | | 72.4 | (25%-150%) |
| | | 13C-206-NoCB | | 77.4 | (25%-150%) |
| | | 13C-208-NoCB | | 65.5 | (25%-150%) |
| | | 13C-209-DeCB | | 67.5 | (25%-150%) |
| | | 13C-28-TrCB | | 74.4 | (30%-135%) |
| | | 13C-111-PeCB | | 82.0 | (30%-135%) |
| | | 13C-178-HpCB | | 86.5 | (30%-135%) |

^{*} Recovery outside Acceptance Limits

[#] Column to be used to flag recovery values

D Sample Diluted

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PCB Congeners

Quality Control Summary Spike Recovery Report

SDG Number: 2109132 Sample Type: Laboratory Control Sample

Client ID: LCS for batch 47898 Matrix: WATER

Lab Sample ID: 12030239

Instrument: HRP875 Analysis Date: 09/22/2021 18:01 Dilution: 1

Analyst: MJC Prep Batch ID:47898

Batch ID: 47901

| | | | Amount Added | | Spike Conc. | Recovery | Acceptance | |
|------------|-----|----------|-----------------|------|----------------|----------|------------|--|
| CAS No. | | Parmname | pg/L | | pg/L | % | Limits | |
| 2051-60-7 | LCS | 1-MoCB | 500 | | 433 | 86.7 | 50-150 | |
| 2051-62-9 | LCS | 3-MoCB | 500 | | 481 | 96.1 | 50-150 | |
| 13029-08-8 | LCS | 4-DiCB | 500 | | 427 | 85.5 | 50-150 | |
| 2050-68-2 | LCS | 15-DiCB | 500 | | 494 | 98.8 | 50-150 | |
| 38444-73-4 | LCS | 19-TrCB | 500 | | 454 | 90.9 | 50-150 | |
| 38444-90-5 | LCS | 37-TrCB | 500 | | 477 | 95.4 | 50-150 | |
| 15968-05-5 | LCS | 54-TeCB | 1000 | | 1040 | 104 | 50-150 | |
| 32598-13-3 | LCS | 77-TeCB | 1000 | | 928 | 92.8 | 50-150 | |
| 70362-50-4 | LCS | 81-TeCB | 1000 | | 792 | 79.2 | 50-150 | |
| 56558-16-8 | LCS | 104-PeCB | 1000 | | 1080 | 108 | 50-150 | |
| 32598-14-4 | LCS | 105-PeCB | 1000 | | 887 | 88.7 | 50-150 | |
| 74472-37-0 | LCS | 114-PeCB | 1000 | | 1080 | 108 | 50-150 | |
| 31508-00-6 | LCS | 118-PeCB | 1000 | | 1050 | 105 | 50-150 | |
| 65510-44-3 | LCS | 123-PeCB | 1000 | | 989 | 98.9 | 50-150 | |
| 57465-28-8 | LCS | 126-PeCB | 1000 | | 967 | 96.7 | 50-150 | |
| 33979-03-2 | LCS | 155-HxCB | 1000 | | 1040 | 104 | 50-150 | |
| 38380-08-4 | LCS | 156-HxCB | 2000 | C | 2160 | 108 | 50-150 | |
| 69782-90-7 | LCS | 157-HxCB | | C156 | | | | |
| 52663-72-6 | LCS | 167-HxCB | 1000 | | 1020 | 102 | 50-150 | |
| 32774-16-6 | LCS | 169-HxCB | 1000 | | 964 | 96.4 | 50-150 | |
| 74487-85-7 | LCS | 188-HpCB | 1000 | | 954 | 95.4 | 50-150 | |
| 39635-31-9 | LCS | 189-HpCB | 1000 | | 976 | 97.6 | 50-150 | |
| 2136-99-4 | LCS | 202-OcCB | 1500 | | 1600 | 107 | 50-150 | |
| 74472-53-0 | LCS | 205-OcCB | 1500 | | 1380 | 91.8 | 50-150 | |
| 40186-72-9 | LCS | 206-NoCB | 1500 | | 1360 | 90.8 | 50-150 | |
| 52663-77-1 | LCS | 208-NoCB | 1500 | | 1600 | 107 | 50-150 | |
| 2051-24-3 | LCS | 209-DeCB | 1500 | | 1470 | 97.7 | 50-150 | |

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PCB Congeners

Quality Control Summary Spike Recovery Report

SDG Number: 2109132 Sample Type: Laboratory Control Sample Duplicate

Client ID: LCSD for batch 47898 Matrix: WATER

Lab Sample ID: 12030240

Instrument: HRP875 Analysis Date: 09/22/2021 19:11 Dilution: 1

Analyst: MJC Prep Batch ID:47898

Batch ID: 47901

| CAS No. | | Parmname | Amount Added pg/L | | Spike Conc. pg/L | Recovery | Acceptance Limits | RPD % | Acceptance Limits |
|------------|------|----------|-------------------------|------|------------------------|----------|----------------------|----------|----------------------|
| 2051-60-7 | LCSD | 1-MoCB | 500 | | 447 | 89.4 | 50-150 | 3.06 | 0-20 |
| 2051-62-9 | LCSD | 3-MoCB | 500 | | 504 | 101 | 50-150 | 4.68 | 0-20 |
| 13029-08-8 | LCSD | 4-DiCB | 500 | | 434 | 86.9 | 50-150 | 1.62 | 0-20 |
| 2050-68-2 | LCSD | 15-DiCB | 500 | | 507 | 101 | 50-150 | 2.49 | 0-20 |
| 38444-73-4 | LCSD | 19-TrCB | 500 | | 478 | 95.7 | 50-150 | 5.12 | 0-20 |
| 38444-90-5 | LCSD | 37-TrCB | 500 | | 484 | 96.8 | 50-150 | 1.48 | 0-20 |
| 15968-05-5 | LCSD | 54-TeCB | 1000 | | 1040 | 104 | 50-150 | 0.148 | 0-20 |
| 32598-13-3 | LCSD | 77-TeCB | 1000 | | 937 | 93.7 | 50-150 | 0.912 | 0-20 |
| 70362-50-4 | LCSD | 81-TeCB | 1000 | | 808 | 80.8 | 50-150 | 2.01 | 0-20 |
| 56558-16-8 | LCSD | 104-PeCB | 1000 | | 1090 | 109 | 50-150 | 0.877 | 0-20 |
| 32598-14-4 | LCSD | 105-PeCB | 1000 | | 905 | 90.5 | 50-150 | 2.10 | 0-20 |
| 74472-37-0 | LCSD | 114-PeCB | 1000 | | 1110 | 111 | 50-150 | 2.80 | 0-20 |
| 31508-00-6 | LCSD | 118-PeCB | 1000 | | 1070 | 107 | 50-150 | 1.55 | 0-20 |
| 65510-44-3 | LCSD | 123-PeCB | 1000 | | 1000 | 100 | 50-150 | 1.49 | 0-20 |
| 57465-28-8 | LCSD | 126-PeCB | 1000 | | 1010 | 101 | 50-150 | 4.46 | 0-20 |
| 33979-03-2 | LCSD | 155-HxCB | 1000 | | 1050 | 105 | 50-150 | 1.34 | 0-20 |
| 38380-08-4 | LCSD | 156-HxCB | 2000 | C | 2200 | 110 | 50-150 | 1.40 | 0-20 |
| 69782-90-7 | LCSD | 157-HxCB | | C156 | | | | | |
| 52663-72-6 | LCSD | 167-HxCB | 1000 | | 1030 | 103 | 50-150 | 1.29 | 0-20 |
| 32774-16-6 | LCSD | 169-HxCB | 1000 | | 990 | 99 | 50-150 | 2.65 | 0-20 |
| 74487-85-7 | LCSD | 188-НрСВ | 1000 | | 980 | 98 | 50-150 | 2.75 | 0-20 |
| 39635-31-9 | LCSD | 189-НрСВ | 1000 | | 1000 | 100 | 50-150 | 2.82 | 0-20 |
| 2136-99-4 | LCSD | 202-OcCB | 1500 | | 1610 | 107 | 50-150 | 0.759 | 0-20 |
| 74472-53-0 | LCSD | 205-OcCB | 1500 | | 1390 | 92.8 | 50-150 | 1.12 | 0-20 |
| 40186-72-9 | LCSD | 206-NoCB | 1500 | | 1380 | 92.3 | 50-150 | 1.71 | 0-20 |
| 52663-77-1 | LCSD | 208-NoCB | 1500 | | 1610 | 107 | 50-150 | 0.721 | 0-20 |
| 2051-24-3 | LCSD | 209-DeCB | 1500 | | 1490 | 99.2 | 50-150 | 1.50 | 0-20 |

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Method Blank Summary

2109132 SDG Number: **Client ID:**

MB for batch 47898 Lab Sample ID: 12030238

Client: HALL001 Instrument ID: HRP875 **Prep Date:**

21-SEP-21

Matrix: WATER

Data File: d22sep21a-5 Analyzed: 09/22/21 20:21

Column:

This method blank applies to the following samples and quality control samples:

| Client Sample ID | Lab Sample ID | File ID | Date Analyzed | Time Analyzed | |
|-----------------------------------|---------------|---------------|---------------|---------------|--|
| 01 LCS for batch 47898 | 12030239 | d22sep21a-3 | 09/22/21 | 1801 | |
| 02 LCSD for batch 47898 | 12030240 | d22sep21a-4 | 09/22/21 | 1911 | |
| 03 2109132-001G RG North-20210901 | 18708001 | d22sep21a_2-4 | 09/23/21 | 0811 | |
| 04 2109132-003G RG South-20210902 | 18708002 | d22sep21a_2-5 | 09/23/21 | 0921 | |

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PCB Congeners Certificate of Analysis Sample Summary

MJC

SDG Number: 2109132

12030238 Lab Sample ID:

QC for batch 47898

Client ID: MB for batch 47898

Client Sample:

Batch ID: 47901

09/22/2021 20:21 **Run Date:** Data File: d22sep21a-5

47898 Prep Batch:

HALL001 Client:

Method:

Analyst:

Prep Method:

EPA Method 1668A

SW846 3520C

Project: Matrix: HALL00113 WATER

Prep Basis:

As Received

Instrument:

HRP875 Dilution: 1

Prep SOP Ref: CF-OA-E-001

| Prep Date: | 21-SEP-21 | Prep Aliquot: | 1000 mL | | | | |
|-------------------|-----------|---------------|---------|-------|------|-----|---|
| CAS No. | Parmname | Qual | Result | Units | EDL | PQL | |
| 2051-60-7 | 1-MoCB | U | ND | pg/L | 1.48 | 100 | _ |
| 2051-61-8 | 2-MoCB | U | ND | pg/L | 2.02 | 100 | |
| 2051-62-9 | 3-MoCB | U | ND | pg/L | 1.86 | 100 | |
| 13029-08-8 | 4-DiCB | U | ND | pg/L | 12.2 | 100 | |
| 16605-91-7 | 5-DiCB | U | ND | pg/L | 9.28 | 100 | |
| 25569-80-6 | 6-DiCB | U | ND | pg/L | 8.66 | 100 | |
| 33284-50-3 | 7-DiCB | U | ND | pg/L | 7.94 | 100 | |
| 34883-43-7 | 8-DiCB | U | ND | pg/L | 7.82 | 100 | |
| 34883-39-1 | 9-DiCB | U | ND | pg/L | 10.3 | 100 | |
| 33146-45-1 | 10-DiCB | U | ND | pg/L | 8.30 | 100 | |
| 2050-67-1 | 11-DiCB | U | ND | pg/L | 52.4 | 100 | |
| 2974-92-7 | 12-DiCB | CU | ND | pg/L | 8.88 | 200 | |
| 2974-90-5 | 13-DiCB | C12 | | | | | |
| 34883-41-5 | 14-DiCB | U | ND | pg/L | 9.44 | 100 | |
| 2050-68-2 | 15-DiCB | U | ND | pg/L | 9.80 | 100 | |
| 38444-78-9 | 16-TrCB | U | ND | pg/L | 3.14 | 100 | |
| 37680-66-3 | 17-TrCB | U | ND | pg/L | 3.18 | 100 | |
| 37680-65-2 | 18-TrCB | CU | ND | pg/L | 2.62 | 200 | |
| 38444-73-4 | 19-TrCB | U | ND | pg/L | 3.28 | 100 | |
| 38444-84-7 | 20-TrCB | CU | ND | pg/L | 2.08 | 200 | |
| 55702-46-0 | 21-TrCB | CU | ND | pg/L | 2.20 | 200 | |
| 38444-85-8 | 22-TrCB | U | ND | pg/L | 2.08 | 100 | |
| 55720-44-0 | 23-TrCB | U | ND | pg/L | 2.10 | 100 | |
| 55702-45-9 | 24-TrCB | U | ND | pg/L | 2.14 | 100 | |
| 55712-37-3 | 25-TrCB | U | ND | pg/L | 1.94 | 100 | |
| 38444-81-4 | 26-TrCB | CU | ND | pg/L | 2.24 | 200 | |
| 38444-76-7 | 27-TrCB | U | ND | pg/L | 2.48 | 100 | |
| 7012-37-5 | 28-TrCB | C20 | | | | | |
| 15862-07-4 | 29-TrCB | C26 | | | | | |
| 35693-92-6 | 30-TrCB | C18 | | | | | |
| 16606-02-3 | 31-TrCB | U | ND | pg/L | 2.46 | 100 | |
| | | | | | | | |

U

ND

pg/L

2.18

100

Comments:

38444-77-8

32-TrCB

Congener has coeluters. When Cxxx, refer to congener number xxx for data

U Analyte was analyzed for, but not detected above the specified detection limit.

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PCB Congeners Certificate of Analysis Sample Summary

Client:

HALL001

Project: Matrix: HALL00113 WATER

Lab Sample ID: **Client Sample:**

SDG Number:

2109132 12030238

47901

As Received

HRP875

Client ID:

QC for batch 47898

Prep Basis:

Batch ID:

MB for batch 47898

Method: Analyst: EPA Method 1668A

Instrument:

Run Date: Data File: Prep Batch: 09/22/2021 20:21 d22sep21a-5 47898

MJC

Dilution: 1

Prep Method:

SW846 3520C

Prep SOP Ref: CF-OA-E-001

| Prep Date: 21-SEP-21 | Prep Aliquot: | 1000 mL |
|----------------------|---------------|---------|
|----------------------|---------------|---------|

| Prep Date: | 21-SEP-21 | Prep Aliquot: | 1000 mL | | | | |
|------------|-----------|---------------|---------|-------|------|-----|--|
| CAS No. | Parmname | Qual | Result | Units | EDL | PQL | |
| 38444-86-9 | 33-TrCB | C21 | | | | | |
| 37680-68-5 | 34-TrCB | U | ND | pg/L | 2.44 | 100 | |
| 37680-69-6 | 35-TrCB | U | ND | pg/L | 2.52 | 100 | |
| 38444-87-0 | 36-TrCB | U | ND | pg/L | 2.24 | 100 | |
| 38444-90-5 | 37-TrCB | U | ND | pg/L | 2.58 | 100 | |
| 53555-66-1 | 38-TrCB | U | ND | pg/L | 2.52 | 100 | |
| 38444-88-1 | 39-TrCB | U | ND | pg/L | 2.10 | 100 | |
| 38444-93-8 | 40-TeCB | CU | ND | pg/L | 2.56 | 200 | |
| 52663-59-9 | 41-TeCB | U | ND | pg/L | 3.92 | 100 | |
| 36559-22-5 | 42-TeCB | U | ND | pg/L | 3.08 | 100 | |
| 70362-46-8 | 43-TeCB | U | ND | pg/L | 4.04 | 100 | |
| 41464-39-5 | 44-TeCB | CU | ND | pg/L | 2.78 | 300 | |
| 70362-45-7 | 45-TeCB | CU | ND | pg/L | 2.38 | 200 | |
| 41464-47-5 | 46-TeCB | U | ND | pg/L | 2.46 | 100 | |
| 2437-79-8 | 47-TeCB | C44 | | | | | |
| 70362-47-9 | 48-TeCB | U | ND | pg/L | 2.72 | 100 | |
| 41464-40-8 | 49-TeCB | CU | ND | pg/L | 2.62 | 200 | |
| 62796-65-0 | 50-TeCB | CU | ND | pg/L | 2.24 | 200 | |
| 68194-04-7 | 51-TeCB | C45 | | | | | |
| 35693-99-3 | 52-TeCB | U | ND | pg/L | 3.36 | 200 | |
| 41464-41-9 | 53-TeCB | C50 | | | | | |
| 15968-05-5 | 54-TeCB | U | ND | pg/L | 1.80 | 100 | |
| 74338-24-2 | 55-TeCB | U | ND | pg/L | 2.46 | 100 | |
| 41464-43-1 | 56-TeCB | U | ND | pg/L | 2.64 | 100 | |
| 70424-67-8 | 57-TeCB | U | ND | pg/L | 2.60 | 100 | |
| 41464-49-7 | 58-TeCB | U | ND | pg/L | 2.30 | 100 | |
| 74472-33-6 | 59-TeCB | CU | ND | pg/L | 2.24 | 300 | |
| 33025-41-1 | 60-TeCB | U | ND | pg/L | 2.38 | 100 | |
| 33284-53-6 | 61-TeCB | CJ | 5.62 | pg/L | 2.46 | 400 | |
| 54230-22-7 | 62-TeCB | C59 | | | | | |
| 74472-34-7 | 63-TeCB | U | ND | pg/L | 2.56 | 100 | |
| 52663-58-8 | 64-TeCB | U | ND | pg/L | 2.10 | 100 | |
| | | | | | | | |

- Congener has coeluters. When Cxxx, refer to congener number xxx for data
- Value is estimated
- U Analyte was analyzed for, but not detected above the specified detection limit.

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PCB Congeners Certificate of Analysis Sample Summary

SDG Number: 2109132 Client: HALL001 Project: HALL00113 Lab Sample ID: 12030238 HALL001 Project: WATER

Client Sample: QC for batch 47898

Client ID: MB for batch 47898 Batch ID: 47901

Run Date: 09/22/2021 20:21 Data File: d22sep21a-5 Prep Batch: 47898 Method: EPA Method 1668A Analyst: MJC

Prep Method: SW846 3520C

Prep Basis: As Received

Instrument: HRP875 Dilution: 1

Prep SOP Ref: CF-OA-E-001

| Prep Date: | 21-SEP-21 | Prep Aliquot: | 1000 mL | | | | |
|-------------------|-----------|---------------|---------|-------|------|-----|--|
| CAS No. | Parmname | Qual | Result | Units | EDL | PQL | |
| 33284-54-7 | 65-TeCB | C44 | | | | | |
| 32598-10-0 | 66-TeCB | U | ND | pg/L | 2.52 | 100 | |
| 73575-53-8 | 67-TeCB | U | ND | pg/L | 2.28 | 100 | |
| 73575-52-7 | 68-TeCB | U | ND | pg/L | 2.14 | 100 | |
| 60233-24-1 | 69-TeCB | C49 | | | | | |
| 32598-11-1 | 70-TeCB | C61 | | | | | |
| 41464-46-4 | 71-TeCB | C40 | | | | | |
| 41464-42-0 | 72-TeCB | U | ND | pg/L | 2.56 | 100 | |
| 74338-23-1 | 73-TeCB | U | ND | pg/L | 2.12 | 100 | |
| 32690-93-0 | 74-TeCB | C61 | | | | | |
| 32598-12-2 | 75-TeCB | C59 | | | | | |
| 70362-48-0 | 76-TeCB | C61 | | | | | |
| 32598-13-3 | 77-TeCB | U | ND | pg/L | 2.68 | 100 | |
| 70362-49-1 | 78-TeCB | U | ND | pg/L | 3.02 | 100 | |
| 41464-48-6 | 79-TeCB | U | ND | pg/L | 2.48 | 100 | |
| 33284-52-5 | 80-TeCB | U | ND | pg/L | 2.20 | 100 | |
| 70362-50-4 | 81-TeCB | U | ND | pg/L | 2.60 | 100 | |
| 52663-62-4 | 82-PeCB | U | ND | pg/L | 4.58 | 100 | |
| 60145-20-2 | 83-PeCB | U | ND | pg/L | 4.64 | 100 | |
| 52663-60-2 | 84-PeCB | U | ND | pg/L | 3.82 | 100 | |
| 65510-45-4 | 85-PeCB | CU | ND | pg/L | 2.96 | 300 | |
| 55312-69-1 | 86-PeCB | CU | ND | pg/L | 3.08 | 600 | |
| 38380-02-8 | 87-PeCB | C86 | | | | | |
| 55215-17-3 | 88-PeCB | CU | ND | pg/L | 3.66 | 200 | |
| 73575-57-2 | 89-PeCB | U | ND | pg/L | 4.48 | 100 | |
| 68194-07-0 | 90-PeCB | CU | ND | pg/L | 3.18 | 300 | |
| 68194-05-8 | 91-PeCB | C88 | | | | | |
| 52663-61-3 | 92-PeCB | U | ND | pg/L | 4.24 | 100 | |
| 73575-56-1 | 93-PeCB | CU | ND | pg/L | 3.26 | 200 | |
| 73575-55-0 | 94-PeCB | U | ND | pg/L | 3.44 | 100 | |
| 38379-99-6 | 95-PeCB | U | ND | pg/L | 4.20 | 100 | |
| 73575-54-9 | 96-PeCB | U | ND | pg/L | 2.36 | 100 | |

- C Congener has coeluters. When Cxxx, refer to congener number xxx for data
- J Value is estimated
- U Analyte was analyzed for, but not detected above the specified detection limit.

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PCB Congeners Certificate of Analysis Sample Summary

Client: HALL001 HALL00113 SDG Number: 2109132 **Project:** Lab Sample ID: 12030238 WATER Matrix: OC for batch 47898

Client Sample:

| Client Samp | le: QC for patch 4/898 | | | | | | |
|-------------|------------------------|---------------|------------------|-------|--------------------|-------------|--|
| Client ID: | MB for batch 47898 | | | | Prep Basis: | As Received | |
| Batch ID: | 47901 | Method: | EPA Method 1668A | | | | |
| Run Date: | 09/22/2021 20:21 | Analyst: | MJC | | Instrument: | HRP875 | |
| Data File: | d22sep21a-5 | | | | Dilution: | 1 | |
| Prep Batch: | 47898 | Prep Method: | SW846 3520C | | Prep SOP Ref: | CF-OA-E-001 | |
| Prep Date: | 21-SEP-21 | Prep Aliquot: | 1000 mL | | | | |
| CAS No. | Parmname | Qual | Result | Units | EDL | PQL | |
| 41464-51-1 | 97-PeCB | C86 | | | | | |
| 60233-25-2 | 98-PeCB | CU | ND | pg/L | 3.60 | 200 | |
| 38380-01-7 | 99-PeCB | U | ND | pg/L | 2.80 | 100 | |
| 39485-83-1 | 100-PeCB | C93 | | | | | |
| 37680-73-2 | 101-PeCB | C90 | | | | | |
| 68194-06-9 | 102-PeCB | C98 | | | | | |
| 60145-21-3 | 103-PeCB | U | ND | pg/L | 3.76 | 100 | |
| 56558-16-8 | 104-PeCB | U | ND | pg/L | 2.20 | 100 | |
| 32598-14-4 | 105-PeCB | U | ND | pg/L | 3.74 | 100 | |
| 70424-69-0 | 106-PeCB | U | ND | pg/L | 4.36 | 100 | |
| 70424-68-9 | 107-PeCB | U | ND | pg/L | 2.90 | 100 | |
| 70362-41-3 | 108-PeCB | CU | ND | pg/L | 3.48 | 200 | |
| 74472-35-8 | 109-PeCB | C86 | | | | | |
| 38380-03-9 | 110-PeCB | CU | ND | pg/L | 2.86 | 200 | |
| 39635-32-0 | 111-PeCB | U | ND | pg/L | 2.50 | 100 | |
| 74472-36-9 | 112-PeCB | U | ND | pg/L | 2.90 | 100 | |
| 68194-10-5 | 113-PeCB | C90 | | | | | |

U

C110

C85

C85

C86 U

U

U

U

U

C108

C86

U

U

CU

ND

ND

ND

ND

ND

ND

ND

ND

ND

pg/L

pg/L

pg/L

pg/L

pg/L

pg/L

pg/L

pg/L

pg/L

3.52

3.44

2.98

2.44

4.80

3.42

4.22

4.00

3.58

100

100

100

100

100

100

100

100

200

Comments:

74472-37-0

74472-38-1

18259-05-7

68194-11-6

31508-00-6

56558-17-9

68194-12-7

56558-18-0

76842-07-4

65510-44-3

70424-70-3

74472-39-2

57465-28-8

39635-33-1

38380-07-3

114-PeCB

115-PeCB

116-PeCB

117-PeCB

118-PeCB

119-PeCB

120-PeCB

121-PeCB

122-PeCB

123-PeCB

124-PeCB

125-PeCB

126-PeCB

127-PeCB

128-HxCB

Congener has coeluters. When Cxxx, refer to congener number xxx for data

U Analyte was analyzed for, but not detected above the specified detection limit.

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of 8

PCB Congeners Certificate of Analysis Sample Summary

2109132 SDG Number:

12030238

Client:

HALL001

Project: Matrix: HALL00113 WATER

Lab Sample ID: QC for batch 47898 **Client Sample:**

MB for batch 47898 **Client ID: Batch ID:**

47901

Method:

EPA Method 1668A

SW846 3520C

Prep Basis:

As Received

09/22/2021 20:21 **Run Date:** Data File: d22sep21a-5

Analyst: MJC

Instrument: HRP875 Dilution: 1

47898 **Prep Method:** Prep Batch:

Prep SOP Ref: CF-OA-E-001

| Prep Date: | 21-SEP-21 | Prep Aliquot: | 1000 mL |
|------------|-----------|---------------|---------|
| | | | |

| Prep Date: | 21-SEP-21 | Prep Aliquot: | 1000 mL | | | |
|------------|-----------|---------------|---------|-------|------|-----|
| CAS No. | Parmname | Qual | Result | Units | EDL | PQL |
| 55215-18-4 | 129-HxCB | CU | ND | pg/L | 6.84 | 300 |
| 52663-66-8 | 130-HxCB | U | ND | pg/L | 3.76 | 100 |
| 61798-70-7 | 131-HxCB | U | ND | pg/L | 3.56 | 100 |
| 38380-05-1 | 132-HxCB | U | ND | pg/L | 3.22 | 100 |
| 35694-04-3 | 133-HxCB | U | ND | pg/L | 3.74 | 100 |
| 52704-70-8 | 134-HxCB | U | ND | pg/L | 3.94 | 100 |
| 52744-13-5 | 135-HxCB | CU | ND | pg/L | 1.86 | 200 |
| 38411-22-2 | 136-HxCB | U | ND | pg/L | 1.50 | 100 |
| 35694-06-5 | 137-HxCB | U | ND | pg/L | 2.82 | 100 |
| 35065-28-2 | 138-HxCB | C129 | | | | |
| 56030-56-9 | 139-HxCB | CU | ND | pg/L | 2.90 | 200 |
| 59291-64-4 | 140-HxCB | C139 | | | | |
| 52712-04-6 | 141-HxCB | U | ND | pg/L | 3.50 | 100 |
| 41411-61-4 | 142-HxCB | U | ND | pg/L | 4.04 | 100 |
| 68194-15-0 | 143-HxCB | U | ND | pg/L | 4.34 | 100 |
| 68194-14-9 | 144-HxCB | U | ND | pg/L | 2.00 | 100 |
| 74472-40-5 | 145-HxCB | U | ND | pg/L | 1.30 | 100 |
| 51908-16-8 | 146-HxCB | U | ND | pg/L | 2.78 | 100 |
| 68194-13-8 | 147-HxCB | CU | ND | pg/L | 3.40 | 200 |
| 74472-41-6 | 148-HxCB | U | ND | pg/L | 1.92 | 100 |
| 38380-04-0 | 149-HxCB | C147 | | | | |
| 68194-08-1 | 150-HxCB | U | ND | pg/L | 1.28 | 100 |
| 52663-63-5 | 151-HxCB | C135 | | | | |
| 68194-09-2 | 152-HxCB | U | ND | pg/L | 1.50 | 100 |
| 35065-27-1 | 153-HxCB | CJ | 2.90 | pg/L | 2.46 | 200 |
| 60145-22-4 | 154-HxCB | U | ND | pg/L | 1.56 | 100 |
| 33979-03-2 | 155-HxCB | U | ND | pg/L | 1.28 | 100 |
| 38380-08-4 | 156-HxCB | CJ | 5.02 | pg/L | 2.68 | 200 |
| 69782-90-7 | 157-HxCB | C156 | | | | |
| 74472-42-7 | 158-HxCB | U | ND | pg/L | 2.32 | 100 |
| 39635-35-3 | 159-HxCB | U | ND | pg/L | 2.06 | 100 |
| 41411-62-5 | 160-HxCB | U | ND | pg/L | 2.64 | 100 |
| | | | | | | |

Comments:

Congener has coeluters. When Cxxx, refer to congener number xxx for data

U Analyte was analyzed for, but not detected above the specified detection limit.

Value is estimated

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PCB Congeners Certificate of Analysis Sample Summary

HALL001

SDG Number: 2109132 Client:

Lab Sample ID: 12030238

QC for batch 47898

Client ID: MB for batch 47898

Client Sample:

Batch ID: 47901 Run Date: 09/22/2021 20:21

Data File: d22sep21a-5 Prep Batch: 47898 Method: Analyst:

EPA Method 1668A MJC

Prep Method: SW846 3520C Prep Aliquot: 1000 mL Project: HALL00113 Matrix: WATER

Prep Basis: As Received

Instrument: HRP875

Dilution: 1 Prep SOP Ref: CF-OA-E-001

| Prep Date: | 21-SEP-21 | Prep Aliquot: | 1000 mL | | | | |
|------------|-----------|---------------|---------|-------|------|-----|--|
| CAS No. | Parmname | Qual | Result | Units | EDL | PQL | |
| 74472-43-8 | 161-HxCB | U | ND | pg/L | 2.74 | 100 | |
| 39635-34-2 | 162-HxCB | U | ND | pg/L | 1.84 | 100 | |
| 74472-44-9 | 163-HxCB | C129 | | | | | |
| 74472-45-0 | 164-HxCB | U | ND | pg/L | 2.68 | 100 | |
| 74472-46-1 | 165-HxCB | U | ND | pg/L | 2.44 | 100 | |
| 41411-63-6 | 166-HxCB | C128 | | | | | |
| 52663-72-6 | 167-HxCB | U | ND | pg/L | 2.46 | 100 | |
| 59291-65-5 | 168-HxCB | C153 | | | | | |
| 32774-16-6 | 169-HxCB | U | ND | pg/L | 2.32 | 100 | |
| 35065-30-6 | 170-HpCB | U | ND | pg/L | 2.82 | 100 | |
| 52663-71-5 | 171-HpCB | CU | ND | pg/L | 2.84 | 200 | |
| 52663-74-8 | 172-HpCB | U | ND | pg/L | 2.88 | 100 | |
| 68194-16-1 | 173-HpCB | C171 | | | | | |
| 38411-25-5 | 174-HpCB | U | ND | pg/L | 2.66 | 100 | |
| 40186-70-7 | 175-HpCB | U | ND | pg/L | 2.04 | 100 | |
| 52663-65-7 | 176-HpCB | U | ND | pg/L | 1.58 | 100 | |
| 52663-70-4 | 177-НрСВ | U | ND | pg/L | 2.78 | 100 | |
| 52663-67-9 | 178-HpCB | U | ND | pg/L | 2.20 | 100 | |
| 52663-64-6 | 179-HpCB | U | ND | pg/L | 1.56 | 100 | |
| 35065-29-3 | 180-HpCB | CU | ND | pg/L | 2.22 | 200 | |
| 74472-47-2 | 181-HpCB | U | ND | pg/L | 2.32 | 100 | |
| 60145-23-5 | 182-HpCB | U | ND | pg/L | 1.98 | 100 | |
| 52663-69-1 | 183-HpCB | CU | ND | pg/L | 2.42 | 200 | |
| 74472-48-3 | 184-HpCB | U | ND | pg/L | 1.34 | 100 | |
| 52712-05-7 | 185-HpCB | C183 | | | | | |
| 74472-49-4 | 186-HpCB | U | ND | pg/L | 1.46 | 100 | |
| 52663-68-0 | 187-HpCB | U | ND | pg/L | 1.74 | 100 | |
| 74487-85-7 | 188-HpCB | U | ND | pg/L | 1.50 | 100 | |
| 39635-31-9 | 189-HpCB | U | ND | pg/L | 2.32 | 100 | |
| 41411-64-7 | 190-HpCB | U | ND | pg/L | 2.16 | 100 | |
| 74472-50-7 | 191-HpCB | U | ND | pg/L | 2.10 | 100 | |
| 74472-51-8 | 192-HpCB | U | ND | pg/L | 2.08 | 100 | |

C Congener has coeluters. When Cxxx, refer to congener number xxx for data

J Value is estimated

U Analyte was analyzed for, but not detected above the specified detection limit.

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PCB Congeners Certificate of Analysis Sample Summary

MJC

1000 mL

EPA Method 1668A

SW846 3520C

SDG Number: 2109132 Lab Sample ID:

12030238 **Client Sample:**

QC for batch 47898 MB for batch 47898

Batch ID: 47901 09/22/2021 20:21 Run Date: Data File: d22sep21a-5

Client ID:

52663-77-1

2051-24-3

1336-36-3

208-NoCB

209-DeCB

Total PCB Congeners

47898 Prep Batch: **Prep Date:** 21-SEP-21

HALL001 Client:

Method:

Analyst:

Prep Method:

Prep Aliquot:

Project: Matrix:

pg/L

pg/L

pg/L

2.30

1.94

100

100

100

HALL00113 WATER

Prep Basis:

As Received

Instrument: Dilution:

HRP875

Prep SOP Ref: CF-OA-E-001

CAS No. Units **EDL PQL Parmname** Qual Result 69782-91-8 193-HpCB C180 35694-08-7 194-OcCB J 3.38 pg/L 2.26 100 U pg/L 52663-78-2 195-OcCB ND 2.38 100 42740-50-1 196-OcCB U ND 1.98 100 pg/L CU 33091-17-7 197-OcCB ND pg/L 1.42 200 CU 68194-17-2 198-OcCB ND pg/L 1.98 200 52663-75-9 199-OcCB C198 52663-73-7 200-OcCB C197 40186-71-8 U 201-OcCB ND pg/L 1.42 100 2136-99-4 202-OcCB U ND pg/L 1.56 100 52663-76-0 203-OcCB J 1.88 pg/L 1.74 100 U 100 74472-52-9 204-OcCB ND pg/L 1.44 74472-53-0 205-OcCB U ND 1.78 100 pg/L 40186-72-9 206-NoCB U ND pg/L 3.08 100 U 52663-79-3 207-NoCB ND 2.30 100 pg/L

ND

ND

18.8

U

U

J

| Surrogate/Tracer recovery | Qual | Result | Nominal | Units | Recovery% | Acceptable Limits |
|---------------------------|-------|--------|---------|-------|-----------|-------------------|
| 13C-1-MoCB | | 732 | 2000 | pg/L | 36.6 | (15%-150%) |
| 13C-3-MoCB | | 798 | 2000 | pg/L | 39.9 | (15%-150%) |
| 13C-4-DiCB | | 959 | 2000 | pg/L | 47.9 | (25%-150%) |
| 13C-15-DiCB | | 1200 | 2000 | pg/L | 60.2 | (25%-150%) |
| 13C-19-TrCB | | 1200 | 2000 | pg/L | 59.9 | (25%-150%) |
| 13C-37-TrCB | | 1050 | 2000 | pg/L | 52.5 | (25%-150%) |
| 13C-54-TeCB | | 941 | 2000 | pg/L | 47.0 | (25%-150%) |
| 13C-77-TeCB | | 1370 | 2000 | pg/L | 68.3 | (25%-150%) |
| 13C-81-TeCB | | 1370 | 2000 | pg/L | 68.5 | (25%-150%) |
| 13C-104-PeCB | | 880 | 2000 | pg/L | 44.0 | (25%-150%) |
| 13C-105-PeCB | | 1160 | 2000 | pg/L | 57.8 | (25%-150%) |
| 13C-114-PeCB | | 1150 | 2000 | pg/L | 57.7 | (25%-150%) |
| 13C-118-PeCB | | 1120 | 2000 | pg/L | 56.2 | (25%-150%) |
| 13C-123-PeCB | | 1180 | 2000 | pg/L | 59.2 | (25%-150%) |
| 13C-126-PeCB | | 1220 | 2000 | pg/L | 60.9 | (25%-150%) |
| 13C-155-HxCB | | 1000 | 2000 | pg/L | 50.0 | (25%-150%) |
| 13C-156-HxCB | C | 1970 | 4000 | pg/L | 49.2 | (25%-150%) |
| 13C-157-HxCB | C156L | | | | | |
| 13C-167-HxCB | | 1000 | 2000 | pg/L | 50.2 | (25%-150%) |
| 13C-169-HxCB | | 1030 | 2000 | pg/L | 51.5 | (25%-150%) |
| 13C-188-HpCB | | 1340 | 2000 | pg/L | 67.2 | (25%-150%) |
| 13C-189-HpCB | | 1120 | 2000 | pg/L | 55.8 | (25%-150%) |

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PCB Congeners Certificate of Analysis Sample Summary

2109132 SDG Number: 12030238 Lab Sample ID:

Client:

HALL001

Project: Matrix:

Prep Basis:

HALL00113 WATER

As Received

QC for batch 47898 **Client Sample:**

MB for batch 47898 **Client ID:**

Batch ID:

47901 **Run Date:**

09/22/2021 20:21 d22sep21a-5

Method: EPA Method 1668A Analyst: MJC

Instrument: Dilution:

HRP875

Data File: 47898 Prep Batch: **Prep Date:** 21-SEP-21

Prep Method:

SW846 3520C

Prep SOP Ref: CF-OA-E-001

Prep Aliquot: $1000 \ mL$

EDL CAS No. Qual Units **PQL Parmname** Result

| Surrogate/Tracer recovery | Qual | Result | Nominal | Units | Recovery% | Acceptable Limits |
|---------------------------|------|--------|---------|-------|-----------|-------------------|
| 13C-202-OcCB | | 1190 | 2000 | pg/L | 59.6 | (25%-150%) |
| 13C-205-OcCB | | 1310 | 2000 | pg/L | 65.5 | (25%-150%) |
| 13C-206-NoCB | | 1390 | 2000 | pg/L | 69.3 | (25%-150%) |
| 13C-208-NoCB | | 1220 | 2000 | pg/L | 61.0 | (25%-150%) |
| 13C-209-DeCB | | 1240 | 2000 | pg/L | 62.0 | (25%-150%) |
| 13C-28-TrCB | | 1200 | 2000 | pg/L | 60.1 | (30%-135%) |
| 13C-111-PeCB | | 1380 | 2000 | pg/L | 69.1 | (30%-135%) |
| 13C-178-HpCB | | 1470 | 2000 | pg/L | 73.3 | (30%-135%) |

Congener has coeluters. When Cxxx, refer to congener number xxx for data

Analyte was analyzed for, but not detected above the specified detection limit.

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PCB Congeners Certificate of Analysis Sample Summary

MJC

1000 mT

2109132 SDG Number:

12030239 Lab Sample ID:

QC for batch 47898

d22sep21a-3

Client ID: LCS for batch 47898

Client Sample:

Data File:

Batch ID: 47901 09/22/2021 18:01 **Run Date:**

47898 Prep Batch:

Client:

Method:

Analyst:

Prep Method:

HALL001

EPA Method 1668A

SW846 3520C

Project: Matrix: HALL00113 WATER

Prep Basis:

As Received

Instrument: Dilution:

HRP875 1

Prep SOP Ref: CF-OA-E-001

| Prep Date: | 21-SEP-21 | Prep Aliquot: | 1000 mL | | | |
|------------|-----------|---------------|---------|-------|------|-----|
| CAS No. | Parmname | Qual | Result | Units | EDL | PQL |
| 2051-60-7 | 1-MoCB | | 433 | pg/L | 2.16 | 100 |
| 2051-62-9 | 3-MoCB | | 481 | pg/L | 2.58 | 100 |
| 13029-08-8 | 4-DiCB | | 427 | pg/L | 13.1 | 100 |
| 2050-68-2 | 15-DiCB | | 494 | pg/L | 9.78 | 100 |
| 38444-73-4 | 19-TrCB | | 454 | pg/L | 3.84 | 100 |
| 38444-90-5 | 37-TrCB | | 477 | pg/L | 7.66 | 100 |
| 15968-05-5 | 54-TeCB | | 1040 | pg/L | 1.68 | 100 |
| 32598-13-3 | 77-TeCB | | 928 | pg/L | 8.20 | 100 |
| 70362-50-4 | 81-TeCB | | 792 | pg/L | 7.64 | 100 |
| 56558-16-8 | 104-PeCB | | 1080 | pg/L | 2.12 | 100 |
| 32598-14-4 | 105-PeCB | | 887 | pg/L | 9.04 | 100 |
| 74472-37-0 | 114-PeCB | | 1080 | pg/L | 8.26 | 100 |
| 31508-00-6 | 118-PeCB | | 1050 | pg/L | 8.16 | 100 |
| 65510-44-3 | 123-PeCB | | 989 | pg/L | 7.86 | 100 |
| 57465-28-8 | 126-PeCB | | 967 | pg/L | 9.82 | 100 |
| 33979-03-2 | 155-HxCB | | 1040 | pg/L | 1.56 | 100 |
| 38380-08-4 | 156-HxCB | C | 2160 | pg/L | 8.28 | 200 |
| 69782-90-7 | 157-HxCB | C156 | | | | |
| 52663-72-6 | 167-HxCB | | 1020 | pg/L | 6.02 | 100 |
| 32774-16-6 | 169-HxCB | | 964 | pg/L | 7.04 | 100 |
| 74487-85-7 | 188-HpCB | | 954 | pg/L | 2.02 | 100 |
| 39635-31-9 | 189-HpCB | | 976 | pg/L | 3.06 | 100 |
| 2136-99-4 | 202-OcCB | | 1600 | pg/L | 1.94 | 100 |
| 74472-53-0 | 205-OcCB | | 1380 | pg/L | 2.78 | 100 |
| 40186-72-9 | 206-NoCB | | 1360 | pg/L | 3.44 | 100 |
| 52663-77-1 | 208-NoCB | | 1600 | pg/L | 2.68 | 100 |
| 2051-24-3 | 209-DeCB | | 1470 | pg/L | 1.78 | 100 |
| | | | | | | |

| Surrogate/Tracer recovery | Qual | Result | Nominal | Units | Recovery% | Acceptable Limits |
|---------------------------|------|--------|---------|-------|-----------|-------------------|
| 13C-1-MoCB | | 1060 | 2000 | pg/L | 53.1 | (15%-140%) |
| 13C-3-MoCB | | 1170 | 2000 | pg/L | 58.3 | (15%-140%) |
| 13C-4-DiCB | | 1340 | 2000 | pg/L | 67.2 | (30%-140%) |
| 13C-15-DiCB | | 1620 | 2000 | pg/L | 80.8 | (30%-140%) |
| 13C-19-TrCB | | 1710 | 2000 | pg/L | 85.3 | (30%-140%) |
| 13C-37-TrCB | | 1280 | 2000 | pg/L | 64.0 | (30%-140%) |
| 13C-54-TeCB | | 1140 | 2000 | pg/L | 57.2 | (30%-140%) |
| 13C-77-TeCB | | 1690 | 2000 | pg/L | 84.3 | (30%-140%) |
| 13C-81-TeCB | | 1710 | 2000 | pg/L | 85.6 | (30%-140%) |
| 13C-104-PeCB | | 1120 | 2000 | pg/L | 55.9 | (30%-140%) |
| 13C-105-PeCB | | 1390 | 2000 | pg/L | 69.7 | (30%-140%) |
| 13C-114-PeCB | | 1410 | 2000 | pg/L | 70.5 | (30%-140%) |
| 13C-118-PeCB | | 1380 | 2000 | pg/L | 68.8 | (30%-140%) |

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of 2

PCB Congeners Certificate of Analysis Sample Summary

2109132 SDG Number: 12030239 Lab Sample ID:

Client:

Method:

Analyst:

HALL001

Project: Matrix: HALL00113 WATER

Client Sample:

QC for batch 47898

Client ID:

Prep Basis:

As Received

Batch ID:

LCS for batch 47898

EPA Method 1668A

Instrument: HRP875

Run Date: Data File:

09/22/2021 18:01 d22sep21a-3

MJC

1000 mL

Dilution:

Prep Batch:

SW846 3520C

Prep SOP Ref: CF-OA-E-001

Prep Date:

47898 21-SEP-21

47901

Prep Method: Prep Aliquot:

EDL

PQL

CAS No. Qual Units **Parmname** Result

| Surrogate/Tracer recovery | Qual | Result | Nominal | Units | Recovery% | Acceptable Limits |
|---------------------------|-------|--------|---------|-------|-----------|-------------------|
| 13C-123-PeCB | | 1460 | 2000 | pg/L | 73.0 | (30%-140%) |
| 13C-126-PeCB | | 1510 | 2000 | pg/L | 75.6 | (30%-140%) |
| 3C-155-HxCB | | 1320 | 2000 | pg/L | 65.9 | (30%-140%) |
| 3C-156-HxCB | C | 2610 | 4000 | pg/L | 65.4 | (30%-140%) |
| 3C-157-HxCB | C156L | | | | | |
| 3C-167-HxCB | | 1340 | 2000 | pg/L | 66.8 | (30%-140%) |
| 3C-169-HxCB | | 1350 | 2000 | pg/L | 67.6 | (30%-140%) |
| C-188-HpCB | | 1670 | 2000 | pg/L | 83.6 | (30%-140%) |
| C-189-HpCB | | 1430 | 2000 | pg/L | 71.4 | (30%-140%) |
| C-202-OcCB | | 1560 | 2000 | pg/L | 77.8 | (30%-140%) |
| C-205-OcCB | | 1700 | 2000 | pg/L | 84.9 | (30%-140%) |
| C-206-NoCB | | 1800 | 2000 | pg/L | 90.1 | (30%-140%) |
| C-208-NoCB | | 1540 | 2000 | pg/L | 77.1 | (30%-140%) |
| C-209-DeCB | | 1640 | 2000 | pg/L | 82.2 | (30%-140%) |
| C-28-TrCB | | 1540 | 2000 | pg/L | 77.2 | (40%-125%) |
| C-111-PeCB | | 1740 | 2000 | pg/L | 87.1 | (40%-125%) |
| C-178-HpCB | | 1970 | 2000 | pg/L | 98.3 | (40%-125%) |
| | | | | | | |

Congener has coeluters. When Cxxx, refer to congener number xxx for data

Analyte was analyzed for, but not detected above the specified detection limit.

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of 2

PCB Congeners Certificate of Analysis Sample Summary

HALL001 **SDG Number:** 2109132 **Client:** Project: HALL00113 12030240 Lab Sample ID: WATER Matrix: QC for batch 47898 **Client Sample: Client ID:** LCSD for batch 47898 **Prep Basis:** As Received **Batch ID:** 47901 Method: EPA Method 1668A **HRP875** Run Date: 09/22/2021 19:11 Analyst: **MJC Instrument:** Data File: d22sep21a-4 Dilution: Prep SOP Ref: CF-OA-E-001 SW846 3520C 47898 Prep Batch: Prep Method: 1000 mL **Prep Aliquot: Prep Date:** 21-SEP-21 **EDL PQL** CAS No. **Parmname** Qual Result Units 2051-60-7 1-MoCB 447 pg/L 2.22 100 2051-62-9 3-MoCB 504 pg/L 2.60 100 13029-08-8 4-DiCB 434 pg/L 8.98 100 100 2050-68-2 15-DiCB 507 pg/L 7.66 19-TrCB 38444-73-4 478 pg/L 3.56 100 38444-90-5 37-TrCB 484 pg/L 2.84 100 pg/L 15968-05-5 54-TeCB 1040 1.44 100 32598-13-3 77-TeCB 937 pg/L 6.96 100 70362-50-4 81-TeCB 808 pg/L 6.58 100 56558-16-8 104-PeCB 1090 pg/L 1.70 100 32598-14-4 105-PeCB 905 pg/L 7.98 100 74472-37-0 114-PeCB 1110 pg/L 7.72 100 31508-00-6 118-PeCB 1070 pg/L 7.52 100 65510-44-3 123-PeCB 1000 7.36 100 pg/L 1010 100 57465-28-8 126-PeCB pg/L 9.14 pg/L 33979-03-2 155-HxCB 1050 9.20 100 38380-08-4 156-HxCB C 200 2200 pg/L 7.88 C156 69782-90-7 157-HxCB 100 52663-72-6 167-HxCB 1030 pg/L 5.84 169-HxCB 100 32774-16-6 990 pg/L 6.86 74487-85-7 188-HpCB 980 pg/L 1.50 100 39635-31-9 189-HpCB 1000 100 pg/L 4.86 2136-99-4 202-OcCB 1610 pg/L 1.56 100 74472-53-0 205-OcCB 1390 pg/L 4.38 100 100 40186-72-9 206-NoCB 1380 pg/L 2.54 pg/L 52663-77-1 208-NoCB 1610 1.86 100 2051-24-3 209-DeCB 1490 pg/L 1.50 100 Qual Units Recovery% **Acceptable Limits** Surrogate/Tracer recovery Result Nominal 13C-1-MoCB 1020 2000 pg/L 51.1 (15%-140%) 13C-3-MoCB 1160 2000 pg/L 58.1 (15%-140%) 13C-4-DiCB 1360 2000 67.8 (30%-140%) pg/L 13C-15-DiCB 1670 2000 83.4 (30%-140%) pg/L

| 13C-81-TeCB | 1740 | 2000 | pg/L | 87.1 | (30%-140%) |
|--------------|------|------|------|------|------------|
| 13C-104-PeCB | 1100 | 2000 | pg/L | 54.9 | (30%-140%) |
| 13C-105-PeCB | 1400 | 2000 | pg/L | 70.2 | (30%-140%) |
| 13C-114-PeCB | 1400 | 2000 | pg/L | 70.1 | (30%-140%) |
| 13C-118-PeCB | 1370 | 2000 | pg/L | 68.4 | (30%-140%) |
| | | | | | |
| | | | | | |

1690

1320

1170

1710

2000

2000

2000

2000

pg/L

pg/L

pg/L

pg/L

84 3

66.1

58.5

85.7

(30%-140%)

(30%-140%)

(30%-140%)

(30%-140%)

13C-19-TrCB

13C-37-TrCB

13C-54-TeCB

13C-77-TeCB

Page 2

October 1, 2021

of 2

PCB Congeners Certificate of Analysis Sample Summary

2109132 SDG Number: 12030240 Lab Sample ID:

Client:

HALL001

EPA Method 1668A

SW846 3520C

Project: HALL00113

Matrix:

WATER

Client Sample:

QC for batch 47898

Prep Basis:

As Received

Client ID:

Batch ID:

LCSD for batch 47898

Run Date:

09/22/2021 19:11 d22sep21a-4

47901

MJC

Instrument: HRP875 Dilution:

Data File: 47898 Prep Batch:

Prep Method:

Method:

Analyst:

Prep SOP Ref: CF-OA-E-001

PQL

Prep Aliquot: 1000 mL**Prep Date:** 21-SEP-21

CAS No. **Parmname**

EDL Qual Units Result

| Surrogate/Tracer recovery | Qual | Result | Nominal | Units | Recovery% | Acceptable Limits |
|---------------------------|-------|--------|---------|-------|-----------|-------------------|
| 13C-123-PeCB | | 1450 | 2000 | pg/L | 72.6 | (30%-140%) |
| 13C-126-PeCB | | 1500 | 2000 | pg/L | 74.8 | (30%-140%) |
| 13C-155-HxCB | | 1270 | 2000 | pg/L | 63.3 | (30%-140%) |
| 13C-156-HxCB | C | 2540 | 4000 | pg/L | 63.6 | (30%-140%) |
| 13C-157-HxCB | C156L | | | | | |
| 13C-167-HxCB | | 1290 | 2000 | pg/L | 64.4 | (30%-140%) |
| 13C-169-HxCB | | 1320 | 2000 | pg/L | 66.2 | (30%-140%) |
| 13C-188-HpCB | | 1630 | 2000 | pg/L | 81.7 | (30%-140%) |
| 13C-189-HpCB | | 1390 | 2000 | pg/L | 69.5 | (30%-140%) |
| 13C-202-OcCB | | 1530 | 2000 | pg/L | 76.3 | (30%-140%) |
| 13C-205-OcCB | | 1620 | 2000 | pg/L | 81.2 | (30%-140%) |
| 13C-206-NoCB | | 1690 | 2000 | pg/L | 84.7 | (30%-140%) |
| 13C-208-NoCB | | 1510 | 2000 | pg/L | 75.5 | (30%-140%) |
| 13C-209-DeCB | | 1540 | 2000 | pg/L | 77.0 | (30%-140%) |
| 13C-28-TrCB | | 1430 | 2000 | pg/L | 71.3 | (40%-125%) |
| 13C-111-PeCB | | 1620 | 2000 | pg/L | 80.9 | (40%-125%) |
| 13C-178-HpCB | | 1730 | 2000 | pg/L | 86.5 | (40%-125%) |
| | | | | | | |

Congener has coeluters. When Cxxx, refer to congener number xxx for data

Analyte was analyzed for, but not detected above the specified detection limit.



Pace Analytical® ANALYTICAL REPORT

September 17, 2021

Hall Environmental Analysis Laboratory

L1400265 Sample Delivery Group: Samples Received: 09/08/2021

Project Number:

Description:

Report To: Andy Freeman

















Entire Report Reviewed By: Jahn V Houkins

John Hawkins

Project Manager Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received. Pace Analytical National

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

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SAMPLE SUMMARY

| Non-Pota | ble | Collected by | Collected date/time 09/01/21 10:05 | Received da: 09/08/21 09: | |
|-----------|---|--|---|---------------------------|--|
| Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
| WG1737547 | 1 | 09/13/21 14:07 | 09/14/21 22:57 | JMR | Mt. Juliet, TN |
| WG1739188 | 1 | 09/15/21 10:53 | 09/16/21 12:31 | KK | Mt. Juliet, TN |
| | | Collected by | Collected date/time | Received da | te/time |
| Non-Pot | able | | 09/01/21 10:05 | 09/08/21 09: | 15 |
| Batch | Dilution | Preparation | Analysis | Analyst | Location |
| | | date/time | date/time | | |
| WG1737547 | 1 | 09/13/21 14:07 | 09/14/21 22:57 | JMR | Mt. Juliet, TN |
| | | | | | |
| | Batch WG1737547 WG1739188 Non-Pot Batch | WG1737547 1 WG1739188 1 Non-Potable Batch Dilution | Batch Dilution Preparation date/time WG1737547 1 09/13/2114:07 WG1739188 1 09/15/21 10:53 Collected by Non-Potable Batch Dilution Preparation date/time | Non-Potable | Batch Dilution Preparation date/time Analysis date/time Analyst date/time WG1737547 1 09/13/21 14:07 09/14/21 22:57 JMR WG1739188 1 09/15/21 10:53 09/16/21 12:31 KK Collected by Collected date/time Received date/time Non-Potable 09/01/21 10:05 09/08/21 09: Batch Dilution Preparation date/time Analysis date/time Analyst date/time |





















CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

















John Hawkins Project Manager

SAMPLE RESULTS - 01

L1400265

Radiochemistry by Method 900

Collected date/time: 09/01/21 10:05

| | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-------------|--------|-----------|-------------|-------|------------------|-----------|
| Analyte | pCi/l | | + / - | pCi/l | date / time | |
| GROSS ALPHA | 7.03 | | 1.76 | 1.25 | 09/14/2021 22:57 | WG1737547 |

Ss

Radiochemistry by Method D5174

| | Result | Qualifier | Uncertainty | RDL | Analysis Date | <u>Batch</u> | |
|---------|---------|-----------|-------------|---------|------------------|--------------|--|
| Analyte | mg/l | | + / - | mg/l | date / time | | |
| Uranium | 0.00312 | | | 0.00100 | 09/16/2021 12:31 | WG1739188 | |



Uranium = 0.00312 mg/l = 2.09 pCi/L milligrams per liter (mg/L) can be converted to pCi/L by multiplying the U (mg/L) by 670



Adjusted Gross Alpha = Gross Alpha minus Uranium.

Adjusted Gross Alpha =7.03 pCi/L - 2.09 = 4.94 pCi/L

* Compliance gross alpha equals the concentration of analytical gross alpha minus the concentration of Uranium

Reference: http://www.eai-labs.com/assets/docs/radioactive_in_water.pdf









SAMPLE RESULTS - 02

L1400265

Radiochemistry by Method 900

Collected date/time: 09/01/21 10:05

| | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-------------|--------|-----------|-------------|-------|------------------|-----------|
| Analyte | pCi/l | | + / - | pCi/l | date / time | |
| GROSS ALPHA | 34.4 | | 7.82 | 5.87 | 09/14/2021 22:57 | WG1737547 |

Radiochemistry by Method D5174

| | Result | Qualifier | Uncertainty | RDL | Analysis Date | <u>Batch</u> |
|---------|---------|-----------|-------------|---------|------------------|--------------|
| Analyte | mg/l | | + / - | mg/l | date / time | |
| Uranium | 0.00424 | | | 0.00100 | 09/16/2021 12:33 | WG1739188 |



Ss

Uranium = 0.00424 mg/l = 2.84 pCi/L



milligrams per liter (mg/L) can be converted to pCi/L by multiplying the U (mg/L) by 670



Adjusted Gross Alpha = Gross Alpha minus Uranium.













WG1737547

QUALITY CONTROL SUMMARY

L1400265-01,02

Radiochemistry by Method 900

Method Blank (MB)

| (MB) R3704721-1 09/14/21 22:57 | | | | | | | | |
|--------------------------------|-----------|--------------|--------|--|--|--|--|--|
| | MB Result | MB Qualifier | MB MDA | | | | | |
| Analyte | pCi/l | | pCi/l | | | | | |
| GROSS ALPHA | 0.0501 | U | 0.704 | | | | | |







Original Sample (OS) • Duplicate (DUP)

| (OS) | • (DUP) R3704721-5 | 09/14/21 22:57 |
|------|--------------------|----------------|
|------|--------------------|----------------|

| | Original Result | DUP Result | Dilution | DUP RPD | DUP RER | DUP Qualifier | DUP RPD Limits | DUP RER Limit |
|-------------|-----------------|------------|----------|---------|---------|---------------|-------------------|---------------|
| Analyte | | pCi/l | | % | | | % | |
| GROSS ALPHA | | 3.03 | 1 | 64.8 | 0.900 | | 20 | 3 |





Laboratory Control Sample (LCS)

(LCS) R3704721-2 09/14/21 22:57

| (200) 1107047212 0071472 | Spike Amount LCS | | LCS Rec. | Rec. Limits |
|--------------------------|------------------|-------|----------|-------------|
| Analyte | pCi/I pCi/ | pCi/l | % | % |
| GROSS ALPHA | 15.0 14.3 | 14.3 | 95.4 | 80.0-120 |







WG1739188

QUALITY CONTROL SUMMARY

Radiochemistry by Method D5174

L1400265-01,02

Method Blank (MB)

Analyte Uranium

| (MB) R3705183-1 | 09/16/21 11:45 |
|-----------------|----------------|
| | MR R |

| MB Result | MB Qualifier | MB MDL | MB RDL |
|-----------|--------------|---------|---------|
| mg/l | | mg/l | mg/l |
| U | | 0.00100 | 0.00100 |





³Ss

L1397565-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1397565-03 09/16/21 12:02 • (DUP) R3705183-5 09/16/21 11:57

| | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|---------|-----------------|------------|----------|---------|---------------|-------------------|
| Analyte | mg/l | mg/l | | % | | % |
| Uranium | 0.00556 | 0.00559 | 1 | 0.427 | | 20 |







Laboratory Control Sample (LCS)

(LCS) R3705183-2 09/16/21 11:48

| | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
|---------|--------------|------------|----------|-------------|---------------|
| Analyte | mg/l | mg/l | % | % | |
| Uranium | 0.0300 | 0.0287 | 95.7 | 80.0-120 | |





⁹Sc

L1397565-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

 $(OS) \, L1397565-01 \ \ \, O9/16/21 \, 11:59 \, \bullet \, (MS) \, R3705183-3 \ \ \, O9/16/21 \, 11:52 \, \bullet \, (MSD) \, R3705183-4 \ \ \, O9/16/21 \, 11:54$

| | Spike Amount | Original Result | MS Result | MSD Result | MS Rec. | MSD Rec. | Dilution | Rec. Limits | MS Qualifier | MSD Qualifier | RPD | RPD Limits |
|---------|--------------|-----------------|-----------|------------|---------|----------|----------|-------------|--------------|---------------|-------|------------|
| Analyte | mg/l | mg/l | mg/l | mg/l | % | % | | % | | | % | % |
| Uranium | 0.0200 | 0.0915 | 0.109 | 0.110 | 88.8 | 93.4 | 1 | 75.0-125 | | | 0.840 | 20 |

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

| MDA | Minimum Detectable Activity. |
|---------------------------------|--|
| MDL | Method Detection Limit. |
| RDL | Reported Detection Limit. |
| Rec. | Recovery. |
| RER | Replicate Error Ratio. |
| RPD | Relative Percent Difference. |
| SDG | Sample Delivery Group. |
| U | Not detected at the Reporting Limit (or MDL where applicable). |
| Analyte | The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported. |
| Dilution | If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor. |
| Limits | These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges. |
| Original Sample | The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG. |
| Qualifier | This column provides a letter and/or number designation that corresponds to additional information concerning the resureported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable. |
| Result | The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte. |
| Uncertainty (Radiochemistry) | Confidence level of 2 sigma. |
| Case Narrative (Cn) | A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report. |
| Quality Control Summary (Qc) | This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material. |
| Sample Chain of Custody (Sc) | This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis. |
| Sample Results (Sr) | This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported. |
| Sample Summary (Ss) | This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis. |

Qualifier Description

U

Below Detectable Limits: Indicates that the analyte was not detected.





















ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

| Alabama | 40660 | Nebraska | NE-OS-15-05 |
|-------------------------------|-------------|-----------------------------|------------------|
| Alaska | 17-026 | Nevada | TN000032021-1 |
| Arizona | AZ0612 | New Hampshire | 2975 |
| Arkansas | 88-0469 | New Jersey–NELAP | TN002 |
| California | 2932 | New Mexico ¹ | TN00003 |
| Colorado | TN00003 | New York | 11742 |
| Connecticut | PH-0197 | North Carolina | Env375 |
| Florida | E87487 | North Carolina ¹ | DW21704 |
| Georgia | NELAP | North Carolina ³ | 41 |
| Georgia ¹ | 923 | North Dakota | R-140 |
| Idaho | TN00003 | Ohio-VAP | CL0069 |
| Illinois | 200008 | Oklahoma | 9915 |
| Indiana | C-TN-01 | Oregon | TN200002 |
| lowa | 364 | Pennsylvania | 68-02979 |
| Kansas | E-10277 | Rhode Island | LA000356 |
| Kentucky 16 | KY90010 | South Carolina | 84004002 |
| Kentucky ² | 16 | South Dakota | n/a |
| Louisiana | Al30792 | Tennessee 1 4 | 2006 |
| Louisiana | LA018 | Texas | T104704245-20-18 |
| Maine | TN00003 | Texas ⁵ | LAB0152 |
| Maryland | 324 | Utah | TN000032021-11 |
| Massachusetts | M-TN003 | Vermont | VT2006 |
| Michigan | 9958 | Virginia | 110033 |
| Minnesota | 047-999-395 | Washington | C847 |
| Mississippi | TN00003 | West Virginia | 233 |
| Missouri | 340 | Wisconsin | 998093910 |
| Montana | CERT0086 | Wyoming | A2LA |
| A2LA – ISO 17025 | 1461.01 | AIHA-LAP,LLC EMLAP | 100789 |
| A2LA – ISO 17025 ⁵ | 1461.02 | DOD | 1461.01 |
| Canada | 1461.01 | USDA | P330-15-00234 |
| | | | |



^{*} Not all certifications held by the laboratory are applicable to the results reported in the attached report.

TN00003

EPA-Crypto



















^{*} Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

HALL ENVIRONMENTAL ANALYSIS LABORATORY

CHAIN OF CUSTODY RECORD

PAGE: OF:

Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

Website: clients.hallenvironmental.com

COPY

SUB CONTRATOR: Pace TN COMPANY: PHONE: FAX: PACE TN (800) 767-5859 (615) 758-5859 ADDRESS: ACCOUNT #: 12065 Lebanon Rd EMAIL: CITY, STATE, ZIP: Mt. Juliet, TN 37122 440026 BOTTLE COLLECTION ANALYTICAL COMMENTS ITEM SAMPLE CLIENT SAMPLE ID MATRIX TYPE DATE 1 2109132-001H RG North-20210901 500HDPEH2 | Aqueous | 9/1/2021 10:05:00 AM 1 COD 2 |2109132-001I | RG North-20210901 1LHDPEHNO | Aqueous | 9/1/2021 10:05:00 AM 1 Adjusted Gross Alpha 22 - C 3 2109132-001J RG North-20210901 120mL Aqueous 9/1/2021 10:05:00 AM 1 Cr 6 2109132-003H RG South-20210902 500HDPEH2 | Aqueous | 9/2/2021 9:20:00 AM 1 COD 5 2109132-003I RG South-20210902 1LHDPEHNO | Aqueous | 9/2/2021 9:20:00 AM 1 Adjusted Gross Alpha 62 -02 6 2109132-003J RG South-20210902 120mL Aqueous 9/2/2021 9:20:00 AM 1 Cr 6

| COC S: Bottl Corre Suffi | Sample eal Present/Intact: igned/Accurate: es arrive intact: ct bottles used: cient volume sent: creen <0.5 mR/hr: | AY N | Checklist If Applicable VOA Zero Headspace: Pres.Correct/Check: | _Y_N |
|-----------------------------------|--|------|--|------|
|-----------------------------------|--|------|--|------|

B185

| Please include the LAB ID | | T SAMPLE II | O on all final reports. Please e-mail resu | lts to lab@halle | environmental.com. | Please return all coolers and blue ice. Thank you. |
|---------------------------|------------|------------------------|--|--|--------------------|--|
| | | | in this cooler | | | |
| Relinquished By: 540 | Date: 9/2/ | Time: 2:48 | Received By: | Date: | Time: | REPORT TRANSMITTAL DESIRED: |
| Relinquished By: | Date: | Time: | Received By: | Date: | Time: | ☐ HARDCOPY (extra cost) ☐ FAX ☐ EMAIL ☐ ONLINE |
| Relinquished By: | Date: | Tune | Received Boulant | 9/4/21 | 19:15 | Temp of samples 11.9 f. F12 of Attempt to Cool? |
| TAT: | Standard V | RU | SH Next BD 2nd BD 2 | 3rd F | BD [] | |
| | | | | | | Comments: |
| | | TO THE PERSON NAMED IN | THE RESERVE OF THE PARTY OF THE | THE PERSON OF TH | CONCESSION CANADA | 2834 1884 3777 |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2109132**

13-Oct-21

Client: AMAFCA
Project: CMC

Sample ID: MB-62408 SampType: MBLK TestCode: EPA Method 1664B

Client ID: PBW Batch ID: 62408 RunNo: 81111

Prep Date: 9/7/2021 Analysis Date: 9/8/2021 SeqNo: 2863208 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

N-Hexane Extractable Material ND 10.0

Sample ID: LCS-62408 SampType: LCS TestCode: EPA Method 1664B

Client ID: LCSW Batch ID: 62408 RunNo: 81111

Prep Date: 9/7/2021 Analysis Date: 9/8/2021 SeqNo: 2863209 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

N-Hexane Extractable Material 32.2 10.0 40.00 0 80.5 78 114

Sample ID: LCSD-62408 SampType: LCSD TestCode: EPA Method 1664B

Client ID: LCSS02 Batch ID: 62408 RunNo: 81111

Prep Date: 9/7/2021 Analysis Date: 9/8/2021 SeqNo: 2863210 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

N-Hexane Extractable Material 32.8 10.0 40.00 0 82.0 78 114 1.85 20

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2109132**

13-Oct-21

Client: AMAFCA
Project: CMC

Sample ID: LCS-62544 SampType: LCS TestCode: EPA Method 200.7: Metals Client ID: LCSW Batch ID: 62544 RunNo: 81263 Prep Date: 9/13/2021 Analysis Date: 9/14/2021 SeqNo: 2869383 Units: mg/L Result SPK value SPK Ref Val HighLimit %RPD **RPDLimit** Analyte PQL %REC LowLimit Qual Calcium 49 1.0 50.00 0 97.9 85 115 Magnesium 49 1.0 50.00 0 98.0 85 115

SampType: MBLK Sample ID: MB-62544 TestCode: EPA Method 200.7: Metals Client ID: PBW Batch ID: 62544 RunNo: 81263 Units: mg/L Prep Date: 9/13/2021 Analysis Date: 9/14/2021 SeqNo: 2869399 Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Calcium ND 1.0 ND Magnesium 1.0

Sample ID: LLLCS-62544 TestCode: EPA Method 200.7: Metals SampType: LCSLL Client ID: **BatchQC** Batch ID: 62544 RunNo: 81263 Prep Date: 9/13/2021 Analysis Date: 9/14/2021 SeqNo: 2869401 Units: mg/L Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Calcium 0.48 1.0 0.5000 0 95.7 50 150 J Magnesium 0.49 1.0 0.5000 0 97.5 50 150 J

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 8 of 19

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2109132**

13-Oct-21

Client: AMAFCA
Project: CMC

Sample ID: MB SampType: MBLK TestCode: EPA 200.8: Dissolved Metals

Client ID: PBW Batch ID: A81374 RunNo: 81374

Prep Date: Analysis Date: 9/18/2021 SegNo: 2873894 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

 Copper
 ND
 0.0010

 Lead
 ND
 0.00050

Sample ID: LCSLL SampType: LCSLL TestCode: EPA 200.8: Dissolved Metals

Client ID: BatchQC Batch ID: A81374 RunNo: 81374

Prep Date: Analysis Date: 9/18/2021 SeqNo: 2873895 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

 Copper
 0.0010
 0.0010
 0.001000
 0
 101
 50
 150

 Lead
 0.00051
 0.00050
 0.0005001
 0
 101
 50
 150

SampType: LCS TestCode: EPA 200.8: Dissolved Metals

Client ID: LCSW Batch ID: A81374 RunNo: 81374

Prep Date: Analysis Date: 9/18/2021 SeqNo: 2873896 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

0.024 0.0010 0.02500 0 94.7 85 115 Copper 0.012 0.00050 0.01250 0 97.7 85 115 Lead

Sample ID: 2109132-003FMSLL SampType: MS TestCode: EPA 200.8: Dissolved Metals

Client ID: RG South-20210902 Batch ID: A81374 RunNo: 81374

Prep Date: Analysis Date: 9/18/2021 SeqNo: 2873927 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

 Copper
 0.026
 0.0010
 0.02500
 0.001481
 96.1
 70
 130

 Lead
 0.013
 0.00050
 0.01250
 0.0003243
 98.2
 70
 130

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit
POL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 9 of 19

Hall Environmental Analysis Laboratory, Inc.

WO#: **2109132**

13-Oct-21

Client: AMAFCA
Project: CMC

Sample ID: MB SampType: mblk TestCode: EPA Method 300.0: Anions Client ID: PBW Batch ID: R81067 RunNo: 81067 Prep Date: Analysis Date: 9/3/2021 SeqNo: 2861406 Units: mg/L SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Analyte Result **PQL** Qual Nitrogen, Nitrite (As N) ND 0.10 Nitrogen, Nitrate (As N) ND 0.10 ND Nitrate+Nitrite as N 0.20

Sample ID: LCS SampType: Ics TestCode: EPA Method 300.0: Anions Client ID: LCSW Batch ID: R81067 RunNo: 81067 Prep Date: Analysis Date: 9/3/2021 SeqNo: 2861407 Units: mg/L SPK value SPK Ref Val Analyte Result **PQL** %REC LowLimit HighLimit %RPD **RPDLimit** Qual Nitrogen, Nitrite (As N) 0.97 0.10 1.000 0 96.6 90 110 Nitrogen, Nitrate (As N) 0 102 2.5 0.10 2.500 90 110 Nitrate+Nitrite as N 3.5 0.20 3.500 0 100 90 110

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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AMAFCA

Client:

Hall Environmental Analysis Laboratory, Inc.

WO#: **2109132**

13-Oct-21

| Project: CMC | | | | | | | | | | |
|----------------------------|------------|----------------|-----------|---------------------------------|-----------|-----------|-------------|-------|----------|------|
| Sample ID: MB-62459 | SampT | уре: МЕ | BLK | Tes | tCode: El | PA Method | 8081: PESTI | CIDES | | |
| Client ID: PBW | Batch | ID: 62 | 459 | F | RunNo: 8 | 1383 | | | | |
| Prep Date: 9/8/2021 | Analysis D | ate: 9/ | 17/2021 | 5 | SeqNo: 2 | 896453 | Units: µg/L | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Dieldrin | ND | 0.10 | | | | | | | | |
| Surr: Decachlorobiphenyl | 0 | | 2.500 | | 0 | 41.7 | 129 | | | S |
| Surr: Tetrachloro-m-xylene | 0 | | 2.500 | | 0 | 31.8 | 88.5 | | | S |
| Sample ID: MB-62459 | SampT | уре: МЕ | BLK | Tes | tCode: El | PA Method | 8081: PESTI | CIDES | | |
| Client ID: PBW | Batch | ID: 62 | 459 | RunNo: 81383 | | | | | | |
| Prep Date: 9/8/2021 | Analysis D | ate: 9/ | 17/2021 | 5 | SeqNo: 2 | 896456 | Units: µg/L | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Dieldrin | ND | 0.10 | | | | | | | | |
| Surr: Decachlorobiphenyl | 0 | | 2.500 | | 0 | 41.7 | 129 | | | S |
| Surr: Tetrachloro-m-xylene | 0 | | 2.500 | | 0 | 31.8 | 88.5 | | | S |
| Sample ID: LCS-62459 | SampT | ype: LC | s | Tes | tCode: El | PA Method | 8081: PESTI | CIDES | | |
| Client ID: LCSW | Batch | ID: 62 | 459 | F | RunNo: 8 | 1383 | | | | |
| Prep Date: 9/8/2021 | Analysis D | ate: 9/ | 17/2021 | S | SeqNo: 2 | 896457 | Units: µg/L | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Dieldrin | 0.38 | 0.10 | 0.5000 | 0 | 76.2 | 17.4 | 145 | | | |
| Surr: Decachlorobiphenyl | 2.8 | | 2.500 | | 112 | 41.7 | 129 | | | |
| Surr: Tetrachloro-m-xylene | 1.5 | | 2.500 | | 61.1 | 31.8 | 88.5 | | | |
| Sample ID: LCSD-62459 | SampT | ype: LC | SD | Tes | tCode: El | PA Method | 8081: PESTI | CIDES | | |
| Client ID: LCSS02 | Batch | ID: 62 | 459 | F | RunNo: 8 | 1383 | | | | |
| Prep Date: 9/8/2021 | Analysis D | ate: 9/ | 17/2021 | 5 | SeqNo: 2 | 896458 | Units: µg/L | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Dieldrin | 0.42 | 0.10 | 0.5000 | 0 | 84.4 | 17.4 | 145 | 10.2 | 20 | |
| Surr: Decachlorobiphenyl | 2.9 | | 2.500 | | 116 | 41.7 | 129 | 0 | 20 | |
| Surr: Tetrachloro-m-xylene | 1.6 | | 2.500 | | 63.4 | 31.8 | 88.5 | 0 | 20 | |
| Sample ID: LCS-62459 | SampT | ype: LC | s | TestCode: EPA Method 8081: PEST | | | | CIDES | | |
| Client ID: LCSW | Batch | ID: 62 | 459 | RunNo: 81383 | | | | | | |
| Prep Date: 9/8/2021 | Analysis D | ate: 9/ | 17/2021 | 9 | SeqNo: 2 | 896467 | Units: µg/L | | | |

Qualifiers:

Analyte

Dieldrin

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded

Result

0.36

2.7

1.4

PQL

0.10

- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

Surr: Decachlorobiphenyl

Surr: Tetrachloro-m-xylene

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

72.7

108

55.5

%REC LowLimit

17.4

41.7

31.8

- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

SPK value SPK Ref Val

0.5000

2.500

2.500

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RPDLimit

Qual

%RPD

HighLimit

145

129

88.5

AMAFCA

Client:

Hall Environmental Analysis Laboratory, Inc.

SampType: LCS

Batch ID: 62710

Analysis Date: 9/23/2021

PQL

Result

2.5

1.3

WO#: **2109132**

13-Oct-21

| Sample ID: LCSD-62459 | SamnT | ype: LC | ·SD | Tes | Code: FI | PA Method | 8081: PESTI | CIDES | | |
|----------------------------|------------|-----------------|-----------|------------------------|-------------------|-----------|------------------|----------|----------|------|
| Client ID: LCSS02 | | i ID: 62 | | | tunNo: 81 | | 0001. 1 L311 | CIDES | | |
| | | | | | | | | | | |
| Prep Date: 9/8/2021 | Analysis D | ate: 9/ | 17/2021 | ٤ | SeqNo: 28 | 896468 | Units: µg/L | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Dieldrin | 0.40 | 0.10 | 0.5000 | 0 | 80.5 | 17.4 | 145 | 10.2 | 20 | |
| Surr: Decachlorobiphenyl | 2.8 | | 2.500 | | 112 | 41.7 | 129 | 0 | 20 | |
| Surr: Tetrachloro-m-xylene | 1.7 | | 2.500 | | 69.2 | 31.8 | 88.5 | 0 | 20 | |
| Sample ID: MB-62710 | SampT | ype: ME | BLK | TestCode: EPA Method 8 | | | 8081: PESTICIDES | | | |
| Client ID: PBW | Batch | 1D: 62 | 710 | RunNo: 81863 | | | | | | |
| Prep Date: 9/21/2021 | Analysis D | ate: 9/ | 23/2021 | S | SeqNo: 28 | 396469 | Units: %Red | 3 | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: Decachlorobiphenyl | 2.5 | | 2.500 | | 100 | 41.7 | 129 | | | |
| Surr: Tetrachloro-m-xylene | 1.6 | | 2.500 | | 64.6 | 31.8 | 88.5 | | | |
| Sample ID: MB-62710 | SampT | уре: МЕ | BLK | Tes | :Code: EF | PA Method | 8081: PESTI | CIDES | | |
| Client ID: PBW | Batch | 1D: 62 | 710 | R | tunNo: 8 1 | 1863 | | | | |
| Prep Date: 9/21/2021 | Analysis D | ate: 9/ | 23/2021 | S | SeqNo: 28 | 396470 | Units: %Red | 3 | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: Decachlorobiphenyl | 2.5 | | 2.500 | | 98.3 | 41.7 | 129 | | | |
| Surr: Tetrachloro-m-xylene | 1.5 | | 2.500 | | 60.0 | 31.8 | 88.5 | | | |
| Sample ID: LCS-62710 | SampT | ype: LC | s | Tes | :Code: EF | PA Method | 8081: PESTI | CIDES | | |
| Client ID: LCSW | Batch | n ID: 62 | 710 | R | unNo: 8 1 | 1863 | | | | |
| Prep Date: 9/21/2021 | Analysis D | ate: 9/ | 23/2021 | S | SeqNo: 28 | 396471 | Units: %Red | : | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| 0 D l. l l. l | 2.5 | | 2.500 | | 102 | 41.7 | 129 | | | |
| Surr: Decachlorobiphenyl | 2.5 | | 2.000 | | 102 | 71.7 | 120 | | | |

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Sample ID: LCS-62710

Prep Date: 9/21/2021

Surr: Decachlorobiphenyl

Surr: Tetrachloro-m-xylene

Client ID: LCSW

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

RunNo: 81863

99.5

52.5

SeqNo: 2896472

TestCode: EPA Method 8081: PESTICIDES

LowLimit

41.7

31.8

Units: %Rec

129

88.5

HighLimit

%RPD

RPDLimit

Qual

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

SPK value SPK Ref Val %REC

2.500

2.500

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2109132**

13-Oct-21

Client: AMAFCA
Project: CMC

Sample ID: MB-62380 SampType: MBLK TestCode: SM5210B: BOD

Client ID: PBW Batch ID: 62380 RunNo: 81139

Prep Date: 9/3/2021 Analysis Date: 9/8/2021 SeqNo: 2864260 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Biochemical Oxygen Demand ND 2.0

Sample ID: LCS-62380 SampType: LCS TestCode: SM5210B: BOD

Client ID: LCSW Batch ID: 62380 RunNo: 81139

Prep Date: 9/3/2021 Analysis Date: 9/8/2021 SeqNo: 2864261 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Biochemical Oxygen Demand 188 2.0 198.0 0 94.9 84.6 115.4

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 13 of 19

Hall Environmental Analysis Laboratory, Inc.

WO#: **2109132**

13-Oct-21

Client: AMAFCA
Project: CMC

Sample ID: MB-62378 SampType: MBLK TestCode: SM 9223B Fecal Indicator: E. coli MPN

Client ID: PBW Batch ID: 62378 RunNo: 81068

Prep Date: 9/2/2021 Analysis Date: 9/3/2021 SeqNo: 2861458 Units: MPN/100mL

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

E. Coli <1 1.000

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 14 of 19

Hall Environmental Analysis Laboratory, Inc.

WO#: **2109132**

13-Oct-21

Client: AMAFCA
Project: CMC

Sample ID: MB SampType: MBLK TestCode: SM 4500 NH3: Ammonia

Client ID: PBW Batch ID: R81339 RunNo: 81339

Prep Date: Analysis Date: 9/16/2021 SeqNo: 2872464 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Nitrogen, Ammonia ND 1.0

Sample ID: LCS SampType: LCS TestCode: SM 4500 NH3: Ammonia

Client ID: LCSW Batch ID: R81339 RunNo: 81339

Prep Date: Analysis Date: 9/16/2021 SeqNo: 2872465 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Nitrogen, Ammonia 10 1.0 10.00 0 102 80 120

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range RL Reporting Limit

e pH Not In Range Page 15 of 19

Hall Environmental Analysis Laboratory, Inc.

WO#: **2109132**

13-Oct-21

Client: AMAFCA
Project: CMC

Sample ID: MB-62548 SampType: MBLK TestCode: EPA Method 365.1: Total Phosphorous

Client ID: PBW Batch ID: 62548 RunNo: 81302

Prep Date: 9/13/2021 Analysis Date: 9/15/2021 SeqNo: 2871378 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Phosphorus, Total (As P) ND 0.010

Sample ID: LCS-62548 SampType: LCS TestCode: EPA Method 365.1: Total Phosphorous

Client ID: LCSW Batch ID: 62548 RunNo: 81302

Prep Date: 9/13/2021 Analysis Date: 9/15/2021 SeqNo: 2871379 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Phosphorus, Total (As P) 0.24 0.010 0.2500 0 97.4 90 110

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2109132**

13-Oct-21

Client: AMAFCA
Project: CMC

Sample ID: MB-62453 SampType: MBLK TestCode: SM2540C MOD: Total Dissolved Solids

Client ID: PBW Batch ID: 62453 RunNo: 81180

Prep Date: 9/8/2021 Analysis Date: 9/10/2021 SeqNo: 2865947 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Total Dissolved Solids ND 20.0

Sample ID: LCS-62453 SampType: LCS TestCode: SM2540C MOD: Total Dissolved Solids

Client ID: LCSW Batch ID: 62453 RunNo: 81180

Prep Date: 9/8/2021 Analysis Date: 9/10/2021 SeqNo: 2865948 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Total Dissolved Solids 1010 20.0 1000 0 101 80 120

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 17 of 19

Hall Environmental Analysis Laboratory, Inc.

WO#: 2109132

13-Oct-21

Client: AMAFCA **Project: CMC**

Sample ID: MB-62630 SampType: MBLK TestCode: SM 4500 Norg C: TKN

Client ID: PBW Batch ID: 62630 RunNo: 81365

Prep Date: 9/16/2021 Analysis Date: 9/17/2021 SeqNo: 2873549 Units: mg/L

SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Analyte Result **PQL** Qual

Nitrogen, Kjeldahl, Total ND 1.0

Sample ID: LCS-62630 SampType: LCS TestCode: SM 4500 Norg C: TKN

RunNo: 81365 Client ID: LCSW Batch ID: 62630

Prep Date: 9/16/2021 Analysis Date: 9/17/2021 SeqNo: 2873550 Units: mg/L

Analyte SPK value SPK Ref Val %REC LowLimit %RPD **RPDLimit** HighLimit Qual

Nitrogen, Kjeldahl, Total 9.9 10.00 99.4 120

Qualifiers:

Value exceeds Maximum Contaminant Level.

Sample Diluted Due to Matrix

Н Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit ND

PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

Analyte detected in the associated Method Blank

Е Value above quantitation range

Analyte detected below quantitation limits

Sample pH Not In Range

RL Reporting Limit Page 18 of 19

Hall Environmental Analysis Laboratory, Inc.

WO#: **2109132**

13-Oct-21

Client: AMAFCA
Project: CMC

Sample ID: MB-62455 SampType: MBLK TestCode: SM 2540D: TSS

Client ID: PBW Batch ID: 62455 RunNo: 81152

Prep Date: 9/8/2021 Analysis Date: 9/9/2021 SeqNo: 2864535 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Suspended Solids ND 4.0

Sample ID: LCS-62455 SampType: LCS TestCode: SM 2540D: TSS

Client ID: LCSW Batch ID: 62455 RunNo: 81152

Prep Date: 9/8/2021 Analysis Date: 9/9/2021 SeqNo: 2864536 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Suspended Solids 97 4.0 92.10 0 105 83.71 119.44

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 19 of 19



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: clients.hallenvironmental.com

Sample Log-In Check List

| Client Name: | AMAFCA | Work Order Numi | ber: 2109132 | | RcptNo: 1 |
|-------------------|--|--|---|---|---|
| Received By: | Cheyenne Cason | 9/2/2021 12:17:00 | PM | Chenl | |
| Completed By: | Sean Livingston | 9/2/2021 2:19:27 P | M | Chul | |
| Reviewed By: | IO 9.3.2 | (@ | | Ja-Corge | 9/2 |
| Chain of Cus | INDRES: SPA 9.2 | 2721 17:01 | | | |
| 1. Is Chain of C | ustody complete? | | Yes 🗸 | No 🗌 | Not Present |
| 2. How was the | sample delivered? | | Client | | |
| | | | | | |
| Log In | ant manda ta anni III a anni I | | | | 🖂 |
| o. Was an allen | npt made to cool the sample | es? | Yes 🗸 | No 🔲 | NA 🗔 |
| 4. Were all sam | ples received at a temperat | ure of >0° C to 6.0°C | Yes 🗸 | No 🗌 | NA 🗌 |
| 5. Sample(s) in | proper container(s)? | | Yes 🗸 | No 🗌 | |
| 6. Sufficient sam | nple volume for indicated te | st(s)? | Yes 🗸 | No 🗌 | |
| | (except VOA and ONG) pro | | Yes 🗸 | No 🗌 | |
| _ | itive added to bottles? | | Yes | No 🗸 | NA 🗌 |
| 9. Received at le | east 1 vial with headspace < | <1/4" for AQ VOA? | Yes 🗸 | No 🗌 | NA 🗌 |
| 0. Were any sar | mple containers received br | oken? | Yes | No 🗸 | |
| | | | | | of preserved ottles checked |
| | ork match bottle labels? | | Yes 🗸 | | or pH: |
| | ancies on chain of custody) correctly identified on Chain | | Yes 🗸 | No 🗌 | Adjusted? // Adjusted? |
| | t analyses were requested? | 5 | Yes 🗸 | No 🗆 | . 140 |
| | ng times able to be met? | | Yes 🗸 | No 🗆 | Checked by: \$\int 9/3/2 |
| | ustomer for authorization.) | | toward | | |
| pecial Handl | ing (if applicable) | | | 1500 | d foliform: In al |
| | otified of all discrepancies w | ith this order? | Yes | No 🗌 | NA 🗸 |
| Person | Notified: | Date: | Part Asserting Annual Control | PM relative works approximate the contract of | |
| By Who | om: | Via: | 7 | hone Fax | In Person |
| Regardi | ing: | COLUM 12 MAY | Complete of the District States of the Laboratory | CONCLUSION OF STREET CONCUSSION | MACHINE SEED OF MANDAMENTS |
| Client Ir | nstructions: | COMMENT AND REPORT AND ADDRESS OF A PROPERTY OF THE PROPERTY O | Series has a meet to a sea in the sea and the | N-ENZBOYCE planting limited and consideration | Edition (Edition) 100 ft of the Addition of the Edition |
| 6. Additional rei | marks: | | | | |
| 7. Cooler Infor | mation | | | | |
| Cooler No | | Seal Intact Seal No | Seal Date | Signed By | |
| 1 | 1.9 Good | | | | |
| 2 | 4.9 Good | | | | |

| (| Chain | -of-C | ustody Record | Turn-Around | l Time: | | | | | | | | | | | | | | | | |
|------------------------------|-----------------|------------|--------------------------------|----------------------|----------------------|------------------|--------------|----------------------------|----------------------|--------------------|-----------------|--------------|-----------------------------------|-------------|-----------------|---------------------------------|-----------|-----------|-------------|------------|--------|
| Client: | AN | 1AF | CA | Standard | d □ Rusl | n | | | | | | | | | | | | | | TAL OR' | |
| | | | | Project Nam | | | | | | | | | | | | | | | 4116 | JK | T |
| Mailing | g Address | S: | | Cr | MC | | | 40 | 04.1 | | | | | /ironi | | | | | | | |
| | | | | Project #: | | | 1 | | | | | | | | | | | 7109 |) | | |
| Phone | #: | | | - | | | | 16 | el. 50 | 15-34 | 45-39 | eren eren er | - | -ax /sis | 77.1 | | -410° | 7 | | 411111 | |
| email d | or Fax#: | ochav | ez@amafca.org | Project Mana | ager: | | | <u> </u> | 20129 | | | | Marie Service | | i teq | | | E-150 | E | | |
| QA/QC Star | Package: | | □ Level 4 (Full Validation) | Patr | ick C | havez | TMB's (8021) | TPH:8015D(GRO / DRO / MRO) | PCB's | | 8270SIMS | | PO ₄ , SO ₄ | v I | | Total Coliform (Present/Absent) | | st | enumeration | | |
| | litation: | | ompliance | | Ewing, | | TMB | / DR | 082 | - | 8270 | | NO ₂ , | | | esen | ed | 9 | 35 | | |
| □ NEL | | □ Othe | r | On Ice: | Yes Yes | □ No | | 2 | 8/s | 504 | ō | S | | | (A) | <u>a</u> | ~ \ | | 20 | | |
| | O (Type) | T | T | # of Coolers: | | -6.2=1.9 | MTBE, | 0(G | icide | por | 3310 | 8 Metals | NO ₃ , | 7 |)-ic | E | affaci | SAC | | | |
| | | | | Cooler Terrip | (including CF). 5. [| -0.2=4.9 (°C) | - | 015 | Pest | Meti | by 8 | 8 | Ŗ, | 9 | Sen | Self | 18 | 2 | 3 | | |
| Date | Time | Matrix | Sample Name | Container Type and # | Preservative Type | HEAL No. 2109132 | BTEX | PH:8 | 8081 Pesticides/8082 | EDB (Method 504.1) | PAHs by 8310 or | RCRA | Cl, F, | 8260 (VOA) | 8270 (Semi-VOA) | otal | See | | EC | | |
| /1/21 | | _ | RGNorth-202109 | | .,,,, | 20/02 | | | <u> </u> | Ш | | ш | | - ω | - 80 | _ | X | | - 1 | + | + |
| | | | Trip blank | | | 006 | | | | | | | | X | | | | \exists | \top | + | + |
| 1/2/21 | 0920 | AQ | RGSouth-20210 RGAlameda-202 | 702 | | 003/024 005 | 500 | - 9 | 12/2 | (| | | | | | | X | | Ÿ | \top | 十 |
| 1/2/2 | 1030 | AQ | RGAlameda-202 | 10902 | | 005 005 | | | | | | | | | | | 7 | 7 | X | \top | + |
| | | | | | • 6 | | 21 | | | | | \exists | | 1 | | | \neg | 1 | | | - |
| | | | | j | mine | | - | _ | _ | 4 | | | | | | _ | 十 | 井 | 7 | | + |
| | | | | | 0 | 2 | | | | | \neg | 7 | | \neg | \neg | | \neg | \top | + | \neg | + |
| | | | | | | | | | | | | \exists | | | \neg | | \neg | | \top | \top | + |
| | | | | | | | | | | | | | | | \neg | | \neg | \top | 十 | + | + |
| | | | 98 | | | | | | | | | | | | | | \neg | | \top | | \top |
| _/ | | | | | | | | | | | | | | | 1111 | | \top | \top | | \top | T |
| | | | | | | | | | | | | | | | ì | | | \neg | | \top | \top |
| Date: | Time: | Relinquish | | Received by: | Via: Hand | Date Time | Rem | arks | : | | _ | | | 2.5 | , > | | . 1 | <u> </u> | | | |
| /2/14 | 1/25 | - | 10-11 | MM | AND OFF | 9/2/21 1127 | RI | 71 | or | the. | -2 | 02 | 00 | 101 | E | - · C | oli ed | .) | | | |
| Date: Time: Relinquished by: | | | | Received by: | Via: | Date Time | | S | an | Pla | 2 | ne | 25- | 9 | ro | PP | 305 | | | | |
| 4/27 | 4/27 MB7 MR Sol | | | | SPO 9 | 12/21 1217 | | 0 | tt | (| Je | 57 | er | de | y | | | | | | |

Collaborative Monitoring Cooperative - Analyses List Attach to Chain of Custody

<u>Please refer to attached NPDES Permit No. NMR04A00 Appendix F. Methods and minimum quantification levels</u>
(MQL's) will be those approved under 40 CFR 136 and specified in the attached permit

| Analyte (Bold Indicates WQS) | CAS# | Fraction | Method # | MDL (µ |
|----------------------------------|-----------------------|-----------|------------------|-----------|
| Hardness (Ca + Mg) | NA | Total | 200.7 | 2.4 |
| Lead | 7439-92-1 | Dissolved | 200.8 | 0.09 |
| Copper | 7440-50-8 | Dissolved | 200.8 | 1.06 |
| Ammonia + organic nitrogen | 7664-41-7 | Total | 350.1 | 31.32 |
| Total Kjehldal Nitrogen | 17778-88-0 | Total | 351.2 | 58.78 |
| Nitrate + Nitrite | 14797-55-8 | Total | 353.2 | 10.17 |
| Polychlorinated biphenyls (PCBs) | 1336-36-3 | Total | 1668 | 0.014 |
| Tetrahydrofuran (THF) | 109-99-9 | Total | 8260C | 7.9 |
| bis(2-Ethylhexyl)phthalate | 117-81-7 | Total | 8270D | 0.2 |
| Dibenzofuran | 132-64-9 | Total | 8270D | 0.2 |
| ndeno(1,2,3-cd)pyrene | 193-39-5 | Total | 8270D | 0.2 |
| Benzo(b)fluoranthene | 205-99-2 | Total | 8270D | 0.1 |
| Benzo(k)fluoranthene | 207-08-9 | Total | 8270D | 0.1 |
| Chrysene | 218-01-9 | Total | 8270D | 0.2 |
| Benzo(a)pyrene | 50-32-8 | Total | 8270D | 0.3 |
| Dibenzo(a,h)anthracene | 53-70-3 | Total | 8270D | 0.3 |
| Benzo(a)anthracene | 56-55-3 | Total | 8270D | 0.2 |
| Dieldrin | 60-57-1 | Total | 8081 | 0.1 |
| Pentachlorophenol | 87-86-5 | Total | 8270D | 0.2 |
| Benzidine | 92-87-5 | Total | 8270D | 0.1 |
| Chemical Oxygen Demand | E1641638 ² | Total | HACH | 5100 |
| Gross alpha (adjusted) | NA | Total | Method 900 | 0.1 pCi/L |
| otal Dissolved Solids | E16422222 | Total | SM 2540C | 60.4 |
| otal Suspended Solids | NA | Total | SM 2540D | 3450 |
| Biological Oxygen Demand | N/A | Total | Standard Methods | 930 |
| Dil and Grease | - | Total | 1664A | 5000 |
| coli-enumeration | | | SM 9223B | |
| Н | | | SM 4500 | |
| hosphorus | | Dissolved | 365.1 | 100 |
| hosphorus | | Total | 365.1 | 100 |
| Chromium IV | | Total | 3500Cr C-2011 | 100 |

ATTACHMENT 2 FY 2022 WET SEASON COMPLETED DATA VERIFICATION AND VALIDATION (V&V) FORMS

Attachment 1.1 Water Quality Sample Data Verification and Validation Worksheet **Study Name: Compliance Monitoring Cooperative (CMC)** Year: FY 2022 (August 2021 – Wet Season Sample) Project Coordinator: For Data Review and Reporting - SJG, BHI **V&V** Reviewer: SJG Data covered by this worksheet: Rio Grande North – 08/16/21 – E. coli Only Sample – Was Not Qualifying Storm Event Version of Verification/Validation Procedures: QAPP -AMAFCA SOP #5 (7/2022) **Step 1: Verify Field Data** A. Are all Field Data forms present and complete? Yes No If yes, proceed; if no, attempt to locate missing forms, then indicate any remaining missing forms and action taken. Missing Field Data Forms Action Taken Total number of occurrences: 0 B. Are station name and ID, and sampling date and time on forms consistent with database? Yes No If yes, proceed; if no, indicate errors identified, correct errors in database and re-verify. Station and Parameter Action Taken Re-verified? Total number of occurrences: 0 C. Are field data on forms consistent with database? \boxtimes Yes \square No If yes, proceed; if no, indicate errors identified, correct errors in database and re-verify. Parameter(s) Sampling Station Re-verified? Corrected Date

Total number of occurrences: 0

| , | · | no, indicate errors ide | Sampling | | • | ٦ | |
|--------------------|-----------------|--|----------------------|---------------------------------------|---------------------------------|--------------------|-----------------------------|
| - | | tion/RID | Date | RID Corrected | Re-verified? | _ | |
| Tot | al number of o | occurrences: 0 | | | | J | |
| | | | | | ⊠s | tep 1 Completed | Initials: SJG Date: 8/9/22 |
| | | Submittal Date | | of all missing data. Date of Initial | Date Missing Data Were Received | cable KIDs nignlig | hted. Contact data source |
| | | | | | | | |
| Tot | al number of o | occurrences: 0 | | | | | |
| | | occurrences: <u>0</u> nalytical suites hav | e the correct number | per and type of anal | ytes. ⊠ Yes □ | No | |
| B. If ye | Do all of the a | nalytical suites hav | | | | | ed. Contact data source and |
| B. If ye | Do all of the a | nalytical suites hav | | | | | d. Contact data source and |

| | | | | | | Step 2 Completed | Initials: SJG | Date: 8/9/22 |
|---------|-------------------|--|---|---|--|--------------------------------|----------------------|---------------------|
| *No | | icable – no flow data | | MC sample collection lation spreadsheet and | correct errors. | | | |
| | | Station | Sampling Date | Flow data missing or incorrect? | | | | |
| То | tal number of | occurrences: 0 | | | | | | |
| В. | Identify incorr | ect or missing discha | arge measureme | ents, correct errors in da | tabase and re-verify. | | | |
| | : | Station | Sampling Date | Flow data missing or incorrect? | Re-verified? | | | |
| | | | | | | | | |
| То | tal number of | occurrences: <u>0</u> | | | | Applicable Step 3 Completed | Initials: SJG | Date: 8/9/22 |
| Ste | | nalytical Results fo | r Missing Infor | nation or Questionabl | e Results | | | |
| | - | - | - | on identified? Yes | ⊠ No | | | |
| If n | no, proceed; if y | yes, indicate results this step upon receip | with missing info ot of missing info | ormation or questionable ormation or clarification of clarification of A officer) and associate | e results or attach report questionable result | | | |
| | RID | Sample Date | | Questionable on/Results | Action Taken | | | |
| То | Lal number of | occurrences: 0 | | | | Step 4 Completed | <i>Initials:</i> SJG | Date: 8/9/22 |

| | alidate Blanks analytes of co | s Results incern detected | in blank san | nples? | Yes ∑ |] No | | | | | |
|---|---|--|---|--------------|----------------------|-------------|---|---------------------------------------|------------------|---------------|--------------|
| officer or F | Program Mana | t results that nee ager, with a requ to database co | est to add a | | | | | | | | |
| RII | D Sa | mple Date | Param | eter | [Blank | [Sample | Validatio n Code/Fla g Applied | Code/Flag verified in database? | | | |
| *See valid | ation procedu | res to determine | which asso | ociated data | need to | be flagge | d and include | on Validatio | _ on Codes Fo | orm | |
| Step 6: Va Were any If no, procofficer or F | samples subneed; if yes, list Program Mana | rences: 0 In Times Violate In tresults that need the desired in t | ot meet spec ed to have v est to add ap | alidation co | des appli | ied in the | ⊠ No database sav | e these resu | ılts as an e | | ward to QA |
| RID | Sample Date | Parameter | [Blank] | [Sample] | Valid Code App | /Flag i | Code/Flag ver n database to associated da | ALL | | | |
| Total num | ber of occur | rences: <u>0</u> | | | | | | | | | |
| | | | | | | | | ⊠ Step 6 C | ompleted | Initials: SJG | Date: 8/9/22 |
| | | ate/Duplicate F | | | ablished | control lim | it of 20%? | | | | |

| If no, proceed; if yes officer or Program N codes/flags have be | lanager with a re | equest to add | | | | | | | |
|---|-------------------------|----------------|---------------|-------------|------------------------------------|---|---------------------|------------------|---------------------|
| RID Pairs | Replicate or Duplicate? | Sample Date | Parameter | RPD | Validation Code/Flag Applied | Code/Flag verified in database applied?* | | | |
| - | | | | | | | | | |
| Total number of oc | _ | ****** | ****** | ****** | ****** | | ep 7 Completed | Initials: SJG | Date: 8/9/22 |
| After all of the above | e steps have bee | en completed, | save and prin | nt the work | sheet, attach | all applicable | supplemental inf | ormation and si | ign below. |
| I acknowledge that the procedures described | | | | nas been d | completed for | the data iden | tified above in acc | cordance with th | ne |
| Sach Come | | | | 8/9/ | /22 | | | | |
| Data Verifier/Validat | or Signature | | | | Date | | | | |

□ Ves ⊠ No

COMPLETION OF DATA VERIFICATION AND VALIDATION PROCESS

Once the data verification and validation process has been completed for the entire study (note: if the worksheet is for a subset of the data from a study, be sure ALL the data for the entire study is included before final completion of the data verification and validation process), notify the NMSQUID administrator that the process is complete and request that "V V in STORET" be added to the project title.

Once all data have been verified and validated for a study provide <u>copies</u> of ALL *Data Verification and Validation Worksheets* and attachments associated with the study to the Quality Assurance Officer and retain <u>originals</u> in the project binder.

Attachment 1.2 SWQB Validation Codes

When deficiencies are identified through the data verification and validation process, AMAFCA documents or "flags" the deficiencies by assigning validation codes. All data collected from the last compliant QC sample and up to the next compliant QC sample are assigned validation codes. The validation code alerts the data user that the results are outside QA control limits and may require re-sampling or a separate, qualitative analysis based on professional judgment.

| Validation Code | Definition | WQX Equivalent |
|--------------------|--|-------------------|
| A1 | Sample not collected according to SOP | |
| B1 | Chemical was detected in the field blank at a concentration less than 5% of the sample concentration. | |
| BN | Blanks NOT collected during sampling run | |
| BU | Detection in blank. Analyte was not detected in this sample above the method's sample detection limit. | BU |
| RB1 | Chemical was detected in the field blank at a concentration greater than or equal to 5% of the sample concentration. Results for this sample are rejected because they may be the result of contamination; the results may not be reported or used for regulatory compliance purposes. | В |
| R1 | Rejected due to incorrect sample preservation | R |
| R2 | Rejected due to equipment failure in the field | R |
| R3 | Rejected based on best professional judgment | R |
| D1 | Spike recovery not within method acceptance limits | |
| F1 | Sample filter time exceeded | |
| J1 | Estimated: the analyte was positively identified and the associated value is an approximate concentration of the analyte in the sample | J |
| K1 | Holding time violation | Н |
| Ea | Estimated-Incubation temperature between 35.5 and 38.0° Celsius | |
| Er | Rejected-Incubation temperature < 34.5 or >38.0° Celsius | |
| PD1 | Percent difference between duplicate samples excessive | |
| S1 | Per SLD, uncertainties (sigmas) are expressed as one standard deviation, i.e. one standard error. Small negative or positive values that are less than two standard deviations should be interpreted as "less than the detection limit." | |
| S2 | Data are suspect but deemed usable based on best professional judgment; documentation of justification is required and should be included in the Data Verification and Validation Packet and reported with results | |
| Z1 | Macroinvertebrate data did not meet QC criteria specified in Section 2.5 of QAPP | |
| H1 | Habitat data did not meet QC criteria specified in Section 2.5 of QAPP | |

Attachment 1.1 Water Quality Sample Data Verification and Validation Worksheet **Study Name: Compliance Monitoring Cooperative (CMC)** Year: FY 2022 (September 2021 – Wet Season Sample) Project Coordinator: For Data Review and Reporting - SJG, BHI V&V Reviewer: SJG Data covered by this worksheet: Rio Grande North - 9/1/21 Version of Verification/Validation Procedures: QAPP -AMAFCA SOP #5 (7/2022) **Step 1: Verify Field Data** A. Are all Field Data forms present and complete? Yes No If yes, proceed; if no, attempt to locate missing forms, then indicate any remaining missing forms and action taken. Missing Field Data Forms Action Taken Total number of occurrences: 0 B. Are station name and ID, and sampling date and time on forms consistent with database? Yes No If yes, proceed; if no, indicate errors identified, correct errors in database and re-verify. Station and Parameter Action Taken Re-verified? Total number of occurrences: 0 C. Are field data on forms consistent with database? \boxtimes Yes \square No If yes, proceed; if no, indicate errors identified, correct errors in database and re-verify. Parameter(s) Sampling Station Re-verified? Corrected Date

Total number of occurrences: 0

| Sta | tion/RID | Sampling Date | RID Corrected | Re-verified? | | | |
|-----------------------------------|---|---------------------|------------------------|---|---------------------|-------------------|--------------------------|
| otal number of | occurrences: 0 | | | | | | |
| tar namber or | . <u>v</u> | | | ⊠ s | Step 1 Completed | Initials: SJG_L | Date: <u>8/9/</u> |
| ep 2: Verify Da | ta Deliverables | | | | | | |
| Have all data in | n question been delive | | | | | | |
| Have all data in yes, proceed; if | | n missing data (sam | ples or blanks) or att | ach report with appl | icable RIDs highlig | hted. Contact dat | a source |
| Have all data in yes, proceed; if | n question been deliven no, indicate RIDs with | n missing data (sam | ples or blanks) or att | ach report with appl Date Missing Data Were Received | icable RIDs highlig | hted. Contact dat | a source |

| | RID | Submittal Date | Incorre Paramet | | on Taken | Re-ver | rified? | | | |
|------|-------------------|--|--------------------|-----------------------------|----------------|--------------|-------------|-------------|---------------|---------------------|
| *No | te – HEAL Lab | report order number 2 | 2109132. | | | | |] | | |
| | | | | | | | ⊠ Step | 2 Completed | Initials: SJG | Date: 8/9/22 |
| *No | | w Data able – no flow data pro ct or missing data on tl | | | | ect errors. | | | | |
| | S | tation | Sampling Date | Flow data mi or incorred | | | | | | |
| | | | | | | | | | | |
| Tot | al number of c | occurrences: 0 | | | | | | | | |
| B. | Identify incorred | ct or missing discharge | e measuremer | nts, correct erro | rs in databas | se and re-ve | erify. | | | |
| | S | tation | Sampling Date | Flow data mi | | Re-verified | ? | | | |
| | | _ | | | _ | | | | | |
| Tot | al number of c | occurrences: 0 | | | · | - | Not App | | Initials: SJG | Date: 8/9/22 |
| Ste | p 4: Verify Ana | alytical Results for M | issing Inform | ation or Ques | tionable Re | sults | | | | |
| We | re any results v | vith missing/questional | ole information | identified? ⊠ | Yes \[\] N | 0 | | | | |
| take | en. Complete th | es, indicate results with his step upon receipt of hout written approval (| f missing infori | mation or clarifi | ication of que | estionable r | esuİts (cla | | | |

Missing or

| RID | Sample Date | Missing or Questionable Information/Results | Action Taken |
|---------------------|-------------|---|---|
| Rio Grande North | 9/1/2021 | Lab report lists Dissolved Phosphorous results as "Total Phosphorous" for "filtered sample". | BHI added note to the lab report. |
| Rio Grande North | 9/1/2021 | Lab report did not report Adjusted gross alpha. Reported gross alpha and uranium values. | AMAFCA and HEAL were informed of this. BHI Added notes to the lab report & calculated adjusted gross alpha (gross alpha minus uranium). |

^{*}Note – HEAL Lab report order number 2109132.

| • | Total number of c | occurrences: <u>2</u> | | | | | ⊠ Step 4 Co | mpleted | Initials: SJG | Date: 8/9/2 |
|---|---|-----------------------|--|---------|---------|---|---------------------------------------|---------|---------------|--------------------|
| | Step 5: Validate E Were any analytes | | ed in blank samples? [| ⊒ Yes 🗵 |] No | | | | | |
| (| officer or Program | | need to have validation quest to add appropriat correctly. | | | | | | | |
| | RID | Sample Date | Parameter | [Blank | [Sample | Validatio n Code/Fla g Applied | Code/Flag verified in database? | | | |
| ŧ | | | | | | | | | | |

| Total number of occurrences: <u>0</u> | | | |
|---|--------------------|---------------|--------------|
| | ⊠ Step 5 Completed | Initials: SJG | Date: 8/9/22 |
| Step 6: Validate Holding Times Violations | | | |

^{*}See validation procedures to determine which associated data need to be flagged and include on *Validation Codes Form*.

| Were any | samples subn | nitted that did | not meet spe | ecified holding | times? |] Yes ⊠ | No | | | |
|--|---|-------------------------|----------------------------|-----------------|------------------------------|------------------------------------|---|--|---------------|---------------------|
| officer or P | rogram Mana | | uest to add a | | | | | se results as an e te this step after v | | |
| RID | Sample Date | Parameter | [Blank] | [Sample] | Validation Code/Flat Applied | ag in data | Flag verified abase to ALL iated data?* | | | |
| *Note – La | | | | | | | so this is hold | I time is not applic | cable. | |
| | | | | | | | ⊠ S1 | tep 6 Completed | Initials: SJG | Date: 8/9/22 |
| Were any r Yes If no, proce officer or P | replicate/dupl ⊠ No eed; if yes, lis rogram Mana | | eed to have uest to add | de of the esta | les applied | in the datab | ase save the | se results as an e te this step after v | | |
| RID | Pairs | Replicate or Duplicate? | Sample Date | Parameter | RPD | Validation Code/Flag Applied | Code/Flag verified in database applied?* | | | |
| | | | | | | | | | | |
| Total num | ber of occur | rences: <u>0</u> | | | | | ⊠ Sı | tep 7 Completed | Initials: SJG | Date: 8/9/22 |
| | | ***** | ***** | ****** | ****** | ***** | ****** | ****** | | |

After all of the above steps have been completed, save and print the worksheet, attach all applicable supplemental information and sign below.

I acknowledge that the data verification and validation process has been completed for the data identified above in accordance with the procedures described in the CMC QAPP, SOP #2

Data Verifier/Validator Signature Date

COMPLETION OF DATA VERIFICATION AND VALIDATION PROCESS

Once the data verification and validation process has been completed for the entire study (note: if the worksheet is for a subset of the data from a study, be sure ALL the data for the entire study is included before final completion of the data verification and validation process), notify the NMSQUID administrator that the process is complete and request that "V V in STORET" be added to the project title.

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Attachment 1.2 SWQB Validation Codes

When deficiencies are identified through the data verification and validation process, AMAFCA documents or "flags" the deficiencies by assigning validation codes. All data collected from the last compliant QC sample and up to the next compliant QC sample are assigned validation codes. The validation code alerts the data user that the results are outside QA control limits and may require re-sampling or a separate, qualitative analysis based on professional judgment.

| Validation Code | Definition | WQX Equivalent |
|--------------------|--|-------------------|
| A1 | Sample not collected according to SOP | |
| B1 | Chemical was detected in the field blank at a concentration less than 5% of the sample concentration. | |
| BN | Blanks NOT collected during sampling run | |
| BU | Detection in blank. Analyte was not detected in this sample above the method's sample detection limit. | BU |
| RB1 | Chemical was detected in the field blank at a concentration greater than or equal to 5% of the sample concentration. Results for this sample are rejected because they may be the result of contamination; the results may not be reported or used for regulatory compliance purposes. | В |
| R1 | Rejected due to incorrect sample preservation | R |
| R2 | Rejected due to equipment failure in the field | R |
| R3 | Rejected based on best professional judgment | R |
| D1 | Spike recovery not within method acceptance limits | |
| F1 | Sample filter time exceeded | |
| J1 | Estimated: the analyte was positively identified and the associated value is an approximate concentration of the analyte in the sample | J |
| K1 | Holding time violation | Н |
| Ea | Estimated-Incubation temperature between 35.5 and 38.0° Celsius | |
| Er | Rejected-Incubation temperature < 34.5 or >38.0° Celsius | |
| PD1 | Percent difference between duplicate samples excessive | |
| S1 | Per SLD, uncertainties (sigmas) are expressed as one standard deviation, i.e. one standard error. Small negative or positive values that are less than two standard deviations should be interpreted as "less than the detection limit." | |
| S2 | Data are suspect but deemed usable based on best professional judgment; documentation of justification is required and should be included in the Data Verification and Validation Packet and reported with results | |
| Z1 | Macroinvertebrate data did not meet QC criteria specified in Section 2.5 of QAPP | |
| H1 | Habitat data did not meet QC criteria specified in Section 2.5 of QAPP | |

Attachment 1.1 Water Quality Sample Data Verification and Validation Worksheet **Study Name: Compliance Monitoring Cooperative (CMC)** Year: FY 2022 (September 2021 – Wet Season Sample) Project Coordinator: For Data Review and Reporting - SJG, BHI V&V Reviewer: SJG Data covered by this worksheet: Alameda – 9/1/21 – E. coli Only Sample Version of Verification/Validation Procedures: QAPP -AMAFCA SOP #5 (7/2022) **Step 1: Verify Field Data** A. Are all Field Data forms present and complete? Yes No If yes, proceed; if no, attempt to locate missing forms, then indicate any remaining missing forms and action taken. Missing Field Data Forms Action Taken Total number of occurrences: 0 B. Are station name and ID, and sampling date and time on forms consistent with database? Yes No If yes, proceed; if no, indicate errors identified, correct errors in database and re-verify. Station and Parameter Action Taken Re-verified? Total number of occurrences: 0 C. Are field data on forms consistent with database? \boxtimes Yes \square No If yes, proceed; if no, indicate errors identified, correct errors in database and re-verify. Parameter(s) Sampling Station Re-verified? Corrected Date

Total number of occurrences: 0

| | Station/RID | Sampling Date | RID Corrected | Re-verified? | |
|--|--|---|---|--|---|
| | | | | |] |
| otal number | of occurrences: 0 | | | | |
| | | | | ⊠s | tep 1 Completed Initials: SJG Date |
| Have all da | ta in question been deliv | ered? ⊠ Yes □ | No | | |
| yes, proceed | · | n missing data (sam | ples or blanks) or att | ach report with appli Date Missing Data Were Received | cable RIDs highlighted. Contact data so |
| yes, proceed d indicate a | ; if no, indicate RIDs with ction taken. Complete thi | n missing data (sam s step upon receipt Missing | ples or blanks) or attoor all missing data. Date of Initial | Date Missing Data Were | cable RIDs highlighted. Contact data so |
| yes, proceed dindicate a RID stal number | Submittal Date of occurrences: 0 ne analytical suites have | missing data (same step upon receipt Missing Data/Parameters e the correct numles | ples or blanks) or attof all missing data. Date of Initial Verification Deer and type of analogous process. | Date Missing Data Were Received ytes. Yes | |

| | | | | | | ⊠ Step | 2 Completed | Initials: SJG | Date: 8/9/22 |
|------|--|---|----------------------------------|----------------------------------|----------------------------|----------------|------------------------|----------------------|---------------------|
| *No | p 3: Verify Fl te – Not Appli Identify incorr | ow Data icable – no flow data ect or missing data o | provided with Con the flow calcu | CMC sample collecti | ion and correct errors. | | | | |
| | ; | Station | Sampling Date | Flow data missi or incorrect? | ng | | | | |
| | | occurrences: 0 | <u> </u> | | | | | | |
| в. | - | ect or missing discha | Sampling Date | Flow data missi or incorrect? | T. | | | | |
| Tot | al number of | occurrences: <u>0</u> | | | | Not App | licable 3 Completed | <i>Initials:</i> SJG | Date: 8/9/22 |
| Ste | p 4: Verify A | nalytical Results fo | r Missing Infori | mation or Question | nable Results | | • | | |
| | - | with missing/question | - | | | | | | |
| take | en. Complete | yes, indicate results this step upon receip ithout written approv | ot of missing info | ormation or clarificat | tion of questionable | e results (cla | | | |
| | RID | Sample Date | | Questionable on/Results | Action Taker | ı | | | |
| Tot | al number of | occurrences: 0 | | | | | | | |

Step 4 Completed *Initials:* SJG *Date:* 8/9/22

| Were any a | lidate Blanks analytes of co | s Results encern detected | in blank san | nples? | Yes ∑ |] No | | | | | |
|---|---|---|--|-------------------------------|--|--------------------------|---|--------------------------------------|-------------------------------|--------------------------------------|----------------------------|
| officer or P | rogram Mana | t results that ned ager, with a requ to database co | est to add a | alidation coo ppropriate v | des appli validation | ed in the codes to | database sav database. Co | e these res omplete this | ults as an ex step after v | cel file and for erifying that va | ward to QA Ilidation |
| RID |) Sa | imple Date | Param | eter | [Blank] | [Sample | Validatio n Code/Fla g Applied | Code/Flag verified in database | i | | |
| | | | | | | | | | | | |
| *See valida | ation procedu | res to determine | e which asso | ciated data | need to | be flagge | ed and include | on Validation | on Codes Fo | orm. | |
| Total num | ber of occur | rences: <u>0</u> | | | | | | | | | |
| | | | | | | | | ⊠ Step 5 | Completed | <i>Initials:</i> SJG | Date: 8/9/22 |
| | | ng Times Violat | | cified holding | g times? | Yes | | Step 5 | Completed | Initials: <u>SJG</u> | Date: <u>8/9/22</u> |
| Were any s If no, proce officer or P | eed; if yes, lis rogram Mana | | ot meet spec ed to have va est to add ap | alidation co | des appli | ed in the | database sav | e these res | ults as an ex | cel file and for | ward to QA |
| Were any s If no, proce officer or P | eed; if yes, lis rogram Mana | nitted that did no t results that nea ger with a requ | ot meet spec ed to have va est to add ap | alidation co | des appli | ed in the codes to ation | database sav | e these res mplete this rified | ults as an ex | cel file and for | ward to QA |
| Were any s If no, proce officer or P codes/flags | eed; if yes, listogram Manas have been a | nitted that did not results that near the reger with a requaded to databa | ot meet speced to have veest to add apsece. | alidation coopropriate v | des appli alidation Valida Code | ed in the codes to ation | database sav database. Co Code/Flag vei in database to | e these res mplete this rified | ults as an ex | cel file and for | ward to QA |
| Were any s If no, proce officer or P codes/flags | samples subneed; if yes, listrogram Manas have been a | nitted that did not results that neader with a required ded to databath | ed to have values to add apset. | alidation coopropriate v | des appli alidation Valid Code App | ed in the codes to | database sav database. Co Code/Flag ve in database to associated da | e these res mplete this rified | ults as an ex | cel file and for | ward to QA |
| Were any s If no, proce officer or P codes/flags RID *See valida | samples subneed; if yes, listrogram Manas have been a | results that neaded to databate Parameter | ed to have values to add apset. | alidation coopropriate v | des appli alidation Valid Code App | ed in the codes to | database sav database. Co Code/Flag ve in database to associated da | e these res mplete this rified | ults as an ex | cel file and for | ward to QA |

| Were any replicate/o ☐ Yes ☐ No If no, proceed; if yes officer or Program M codes/flags have be | , list results that lanager with a re | need to have equest to add | validation cod | des applied | d in the datab | ase save the | | | |
|---|--|----------------------------|----------------|-------------|------------------------------------|---|----------------|---------------|---------------------|
| RID Pairs | Replicate or Duplicate? | Sample Date | Parameter | RPD | Validation Code/Flag Applied | Code/Flag verified in database applied?* | | | |
| Total number of oc | _ | ****** | ****** | ****** | ****** | | ep 7 Completed | Initials: SJG | Date: 8/9/22 |
| After all of the above I acknowledge that the procedures describe | he data verificat | ion and valida | tion process h | | | | | | |
| Sach Comy | | | | 8/9/ | | | | | |
| Data Verifier/Validate | or Signature | | | I | Date | | | | |

Step 7: Validate Replicate/Duplicate Results (if applicable)

COMPLETION OF DATA VERIFICATION AND VALIDATION PROCESS

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| Ea | Estimated-Incubation temperature between 35.5 and 38.0° Celsius | |
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| PD1 | Percent difference between duplicate samples excessive | |
| S1 | Per SLD, uncertainties (sigmas) are expressed as one standard deviation, i.e. one standard error. Small negative or positive values that are less than two standard deviations should be interpreted as "less than the detection limit." | |
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Total number of occurrences: 0

| | Stati | on/RID | Sampling Date | RID Corrected | Re-verified? | | |
|----------|-----------|----------------------|---------------------------|------------------------------|---------------------------|-----------------|---------------------|
| | <u> </u> | - | | | | | |
| tal nur | mber of o | ccurrences: <u>0</u> | | | | | |
| | | | | | ⊠ S | tep 1 Completed | Initials: SJG Da |
| | | Submittal Date | Missing Data/Parameter | Date of Initial Verification | Date Missing Data Were | | |
| | RID | Gubiliittai Bate | Data/Farameter | | Received | - | |
| | | | | | Received | | |
| otal nur | mber of o | ccurrences: 0 | | nber and type of ana | | No | |
| Do all | mber of o | alytical suites have | e the correct nun | | lytes. ⊠ Yes □ | | ed. Contact data so |
| Do all | mber of o | alytical suites have | e the correct nun | nber and type of ana | lytes. ⊠ Yes □ | | ed. Contact data so |

| | | | | | | ⊠ St | tep 2 Completed | Initials: SJG | Date: 8/9/22 |
|-------------|--|---|-------------------------------------|--|----------------------------------|---|--|-------------------------------------|---------------------|
| *No | | ow Data icable – no flow data ect or missing data o | | | | ct errors. | | | |
| | | Station | Sampling Date | Flow data mis | | | | | |
| | | occurrences: 0 | rgo mossuromo | ents, correct error | re in databa | co and re-verify | | | |
| Б. | | Station | Sampling Date | Flow data mis | ssing | Re-verified? | | | |
| Tot | al number of | occurrences: 0 | | <u> </u> | | | pplicable tep 3 Completed | Initials: SJG | Date: 8/9/22 |
| We If no | re any results o, proceed; if yen. Complete | with missing/question yes, indicate results within step upon receipithout written approva | nable information with missing info | on identified? prmation or questormation or clarific | Yes ⊠Notionable resuction of que | ults or attach reportestionable results | rt. Contact data so (clarify questionab | urce and indica le results only, | te action DO NOT |
| | RID | Sample Date | | Questionable on/Results | Acti | on Taken | | | |
| | | | | | | | | | |

Total number of occurrences: 0

Step 4 Completed *Initials:* SJG *Date:* 8/9/22

| | lidate Blanks analytes of co | Results ncern detected | in blank san | nples? | Yes ∑ |] No | | | | | |
|--|---|--|---|--------------------------|--|--------------------|---|--|-----------------|-----------------|----------------------------|
| officer or P | rogram Mana | results that nee ger, with a requ to database co | est to add a | | | | | | | | |
| RID |) Sa | mple Date | Param | eter | [Blank] | [Sample | Validatio n Code/Fla g Applied | Code/Flag verified in database? | | | |
| | ation procedur ber of occurr | es to determinerences: <u>0</u> | e which asso | ciated data | need to | be flagge | d and include | on <i>Validatio</i> | _ n Codes Fo | orm. | |
| | | | | | | | | | | | |
| | | | | | | | | ⊠ Step 5 C | ompleted | Initials: SJG | Date: 8/9/22 |
| | | g Times Violat | | ified holdin | times? | Yes | ⊠ No | Step 5 0 | completed | Initials: SJG | <u>Date:</u> 8/9/22 |
| Were any solution of the second secon | samples submeed; if yes, list rogram Mana | | ot meet spec ed to have va est to add ap | alidation co | des appli | ed in the | database sav | e these resu | lts as an ex | cel file and fo | rward to QA |
| Were any solution of the second secon | samples submeed; if yes, list rogram Mana | results that did no results that ned ger with a requ | ot meet spec ed to have va est to add ap | alidation co | des appli | ed in the codes to | database sav | e these resu mplete this s rified ALL | lts as an ex | cel file and fo | rward to QA |
| Were any s If no, proce officer or P codes/flags | eed; if yes, list rogram Mana s have been a Sample Date | results that need to deed to databate Parameter | ed to have values to add apset to add apset. [Blank] | alidation coopropriate v | des appli alidation Valid Code App | ed in the codes to | database sav database. Co Code/Flag ver n database to associated da | e these resu mplete this s rified ALL | lts as an ex | cel file and fo | rward to QA |
| Were any s If no, proce officer or P codes/flags RID *See validation of the service of the se | eed; if yes, list rogram Mana s have been a Sample Date | results that need to deed to databate Parameter | ed to have values to add apset to add apset. [Blank] | alidation coopropriate v | des appli alidation Valid Code App | ed in the codes to | database sav database. Co Code/Flag ver n database to associated da | e these resu mplete this s rified ALL | lts as an ex | cel file and fo | rward to QA |

| Were any replicate/o ☐ Yes ☐ No If no, proceed; if yes officer or Program M codes/flags have be | , list results that lanager with a re | need to have equest to add | validation cod | des applied | d in the datab | ase save the | | | |
|---|--|----------------------------|----------------|-------------|------------------------------------|---|----------------|---------------|---------------------|
| RID Pairs | Replicate or Duplicate? | Sample Date | Parameter | RPD | Validation Code/Flag Applied | Code/Flag verified in database applied?* | | | |
| Total number of oc | _ | ****** | ****** | ****** | ****** | | ep 7 Completed | Initials: SJG | Date: 8/9/22 |
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| Sach Comy | | | | 8/9/ | | | | | |
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Step 7: Validate Replicate/Duplicate Results (if applicable)

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Total number of occurrences: 0

| Stat | ion/RID | Sampling Date | RID Corrected Re-verified? | |] | |
|----------------------|----------------------|----------------------------|----------------------------|-----------------------|---------------------|--------------------------|
| Total number of c | occurrences: 0 | | | | 1 | |
| | | | | ⊠ s | tep 1 Completed | Initials: SJG Date: 8 |
| f yes, proceed; if r | question been delive | n missing data (sam | ples or blanks) or atta | ach report with appli | cable RIDs highligh | hted. Contact data sourc |
| | | Minaina | Date of Initial | Date Missing | | |
| RID | Submittal Date | Missing Data/Parameters | | Data Were Received | | |

| | RID | Submittal Date | Incorre Parame | | n Taken | Re-verifi | ed? | | | |
|------|------------------|--|-------------------|---------------------------------|--------------|-----------------|------------|-------------|-------------------------------|---------------------|
| *No | te – HEAL Lab | report order number | | | | | | | | |
| | | | | | | | ⊠ Step | 2 Completed | I Initials: SJG | Date: 8/9/22 |
| *No | | ow Data cable – no flow data proct or missing data on | | | | ct errors. | | | | |
| | S | station | Sampling Date | Flow data miss or incorrect? | | | | | | |
| | <u> </u> | _ | | | | | | | | |
| Tot | al number of | occurrences: 0 | | | | | | | | |
| B. | Identify incorre | ct or missing discharg | e measuremer | nts, correct errors | in databas | se and re-veri | ify. | | | |
| | S | tation | Sampling Date | Flow data miss or incorrect? | | Re-verified? | | | | |
| | | _ | | | | | | | | |
| Tot | al number of o | occurrences: <u>0</u> | | | | <u>. N</u> [| lot App | | I <i>Initials:</i> <u>SJG</u> | Date: 8/9/22 |
| Ste | p 4: Verify An | alytical Results for N | lissing Inform | ation or Questic | onable Res | sults | | | | |
| We | re any results v | with missing/questiona | able information | identified? ⊠ Y | es 🗌 No | 0 | | | | |
| take | en. Complete th | es, indicate results wit nis step upon receipt o hout written approval | of missing infor | mation or clarifica | ation of que | estionable res | sults (cla | | | |

Missing or

| RID | Sample Date | Missing or Questionable Information/Results | Action Taken |
|---------------------|-------------|---|---|
| Rio Grande South | 9/2/2021 | Lab report lists Dissolved Phosphorous results as "Total Phosphorous" for "filtered sample". | BHI added note to the lab report. |
| Rio Grande South | 9/2/2021 | Lab report did not report Adjusted gross alpha. Reported gross alpha and uranium values. | AMAFCA and HEAL were informed of this. BHI Added notes to the lab report & calculated adjusted gross alpha (gross alpha minus uranium). |

^{*}Note – HEAL Lab report order number 2109132.

| Total number of | occurrences: <u>2</u> | | | | | ⊠ Step 4 Coı | mpleted | Initials: SJG | Date: 8/9/22 | |
|---|-----------------------|---|-------------|---------|---|---------------------------------------|---------|---------------|---------------------|--|
| Step 5: Validate Blanks Results Were any analytes of concern detected in blank samples? Yes No | | | | | | | | | | |
| officer or Program | | need to have validation c quest to add appropriate correctly. | | | | | | | | |
| RID | Sample Date | Parameter | [Blank] | [Sample | Validatio n Code/Fla g Applied | Code/Flag verified in database? | | | | |
| | <u> </u> | | <u> </u> | | | | | | | |

| Total number of occurrences: 0 | | | |
|---|--------------------|---------------|--------------|
| | ⊠ Step 5 Completed | Initials: SJG | Date: 8/9/22 |
| Step 6: Validate Holding Times Violations | | | |

^{*}See validation procedures to determine which associated data need to be flagged and include on *Validation Codes Form*.

| Were any | samples subr | mitted that did | not meet spe | ecified holding | times? |] Yes □ | No | | | |
|--|---|-------------------------------|------------------------------|-----------------|------------------------------|------------------------------------|---|--|---------------|---------------------|
| officer or P | rogram Mana | | uest to add a | | | | | se results as an e te this step after v | | |
| RID | Sample Date | Parameter | [Blank] | [Sample] | Validation Code/Flat Applied | ag in data | Flag verified abase to ALL stated data?* | | | |
| *Note – La | | | | | | | so this is hold | time is not applic | eable. | |
| | | | | | | | ⊠ S1 | tep 6 Completed | Initials: SJG | Date: 8/9/22 |
| Were any r Yes If no, proce officer or P | replicate/dupl ⊠ No eed; if yes, lis rogram Mana | | eed to have uest to add a | de of the esta | les applied | in the datab | ase save the | se results as an e te this step after v | | |
| RID | Pairs | Replicate or Duplicate? | Sample Date | Parameter | RPD | Validation Code/Flag Applied | Code/Flag verified in database applied?* | | | |
| | | | | | | | | | | |
| Total num | ber of occur | rences: <u>0</u> | | | | | ⊠ Sı | tep 7 Completed | Initials: SJG | Date: 8/9/22 |
| | | ***** | ****** | ******** | ****** | ******** | ******* | ****** | | |

After all of the above steps have been completed, save and print the worksheet, attach all applicable supplemental information and sign below.

I acknowledge that the data verification and validation process has been completed for the data identified above in accordance with the procedures described in the CMC QAPP, SOP #2

Data Verifier/Validator Signature Date

COMPLETION OF DATA VERIFICATION AND VALIDATION PROCESS

Once the data verification and validation process has been completed for the entire study (note: if the worksheet is for a subset of the data from a study, be sure ALL the data for the entire study is included before final completion of the data verification and validation process), notify the NMSQUID administrator that the process is complete and request that "V V in STORET" be added to the project title.

Once all data have been verified and validated for a study provide <u>copies</u> of ALL *Data Verification and Validation Worksheets* and attachments associated with the study to the Quality Assurance Officer and retain <u>originals</u> in the project binder.

Attachment 1.2 SWQB Validation Codes

When deficiencies are identified through the data verification and validation process, AMAFCA documents or "flags" the deficiencies by assigning validation codes. All data collected from the last compliant QC sample and up to the next compliant QC sample are assigned validation codes. The validation code alerts the data user that the results are outside QA control limits and may require re-sampling or a separate, qualitative analysis based on professional judgment.

| Validation Code | Definition | WQX Equivalent |
|--------------------|--|-------------------|
| A1 | Sample not collected according to SOP | |
| B1 | Chemical was detected in the field blank at a concentration less than 5% of the sample concentration. | |
| BN | Blanks NOT collected during sampling run | |
| BU | Detection in blank. Analyte was not detected in this sample above the method's sample detection limit. | BU |
| RB1 | Chemical was detected in the field blank at a concentration greater than or equal to 5% of the sample concentration. Results for this sample are rejected because they may be the result of contamination; the results may not be reported or used for regulatory compliance purposes. | В |
| R1 | Rejected due to incorrect sample preservation | R |
| R2 | Rejected due to equipment failure in the field | R |
| R3 | Rejected based on best professional judgment | R |
| D1 | Spike recovery not within method acceptance limits | |
| F1 | Sample filter time exceeded | |
| J1 | Estimated: the analyte was positively identified and the associated value is an approximate concentration of the analyte in the sample | J |
| K1 | Holding time violation | Н |
| Ea | Estimated-Incubation temperature between 35.5 and 38.0° Celsius | |
| Er | Rejected-Incubation temperature < 34.5 or >38.0° Celsius | |
| PD1 | Percent difference between duplicate samples excessive | |
| S1 | Per SLD, uncertainties (sigmas) are expressed as one standard deviation, i.e. one standard error. Small negative or positive values that are less than two standard deviations should be interpreted as "less than the detection limit." | |
| S2 | Data are suspect but deemed usable based on best professional judgment; documentation of justification is required and should be included in the Data Verification and Validation Packet and reported with results | |
| Z1 | Macroinvertebrate data did not meet QC criteria specified in Section 2.5 of QAPP | |
| H1 | Habitat data did not meet QC criteria specified in Section 2.5 of QAPP | |



Engineering Spatial Data

Advanced Technologies

Courtyard I 7500 Jefferson St. NE Albuquerque, NM 87109-4335

www.bhinc.com

voice: 505.823.1000 facsimile: 505.798.7988 toll free: 800.877.5332

MEMORANDUM

DATE: August 10, 2022

TO: Patrick Chavez, PE, AMAFCA

Sarah Ganley, PE, ENV-SP FROM:

> Savannah Maynard Emma Adams, El

SUBJECT: CMC Dry Season, Wet Weather Stormwater Monitoring

> Data Verification, Analysis Results Database, and Reporting FY 2022 Dry Season (November 1, 2021 to June 30, 2022)

Notification of In-Stream Water Quality Exceedances

For downstream notification purposes, the following parameters for in-stream samples taken in the Rio Grande for the FY 2022 dry season had results that exceeded applicable E. coli water quality standards (WQSs) for samples obtained on June 22, 2022. Based on the Compliance Monitoring Cooperative (CMC) review of the storm, it was determined that this was not a qualifying storm event, hence further sampling and testing were not conducted. Table 1 summarizes the samples with E. coli exceedances.

Table 1: E. coli Detected Above Applicable Water Quality Standards **CMC FY 2022 Dry Season Monitoring**

| Sampling Date | Parameters, Applicable Water Quality Standard (WQS), and Results Exceeding Applicable WQS |
|---|--|
| Location | E. coli |
| | WQS: 88 MPN (CFU/100 mL) Pueblo of Isleta Primary Contact Ceremonial & Recreational |
| 6/22/2022 Rio Grande North Angostura Diversion Dam | 686.7 MPN (CFU/100ml) |
| 6/22/2022 Rio Grande at Alameda Bridge E. coli Only | >2,419.6 MPN (CFU/100ml) |

CMC Wet Season, Wet Weather Stormwater Monitoring FY 2022 Dry Season (November 1, 2022 to June 30, 2022) August 10, 2022 Page 2

Overview of Stormwater Monitoring Activity

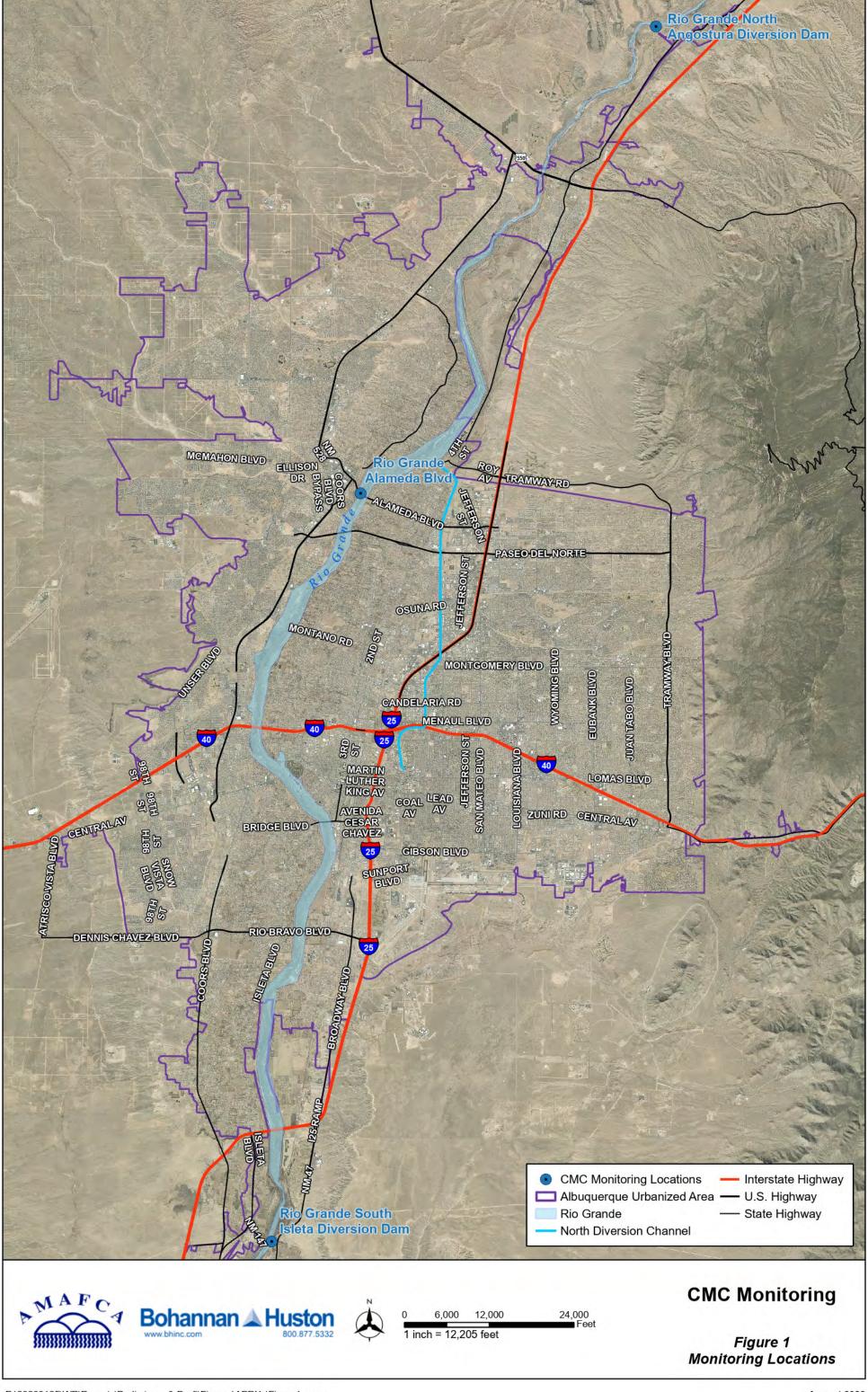
Bohannan Huston, Inc. (BHI) has been tasked to perform water quality services for the CMC Stormwater Data Verification, Database, and Reporting for the Wet Weather Stormwater Quality Monitoring Program for Fiscal Year (FY) 2022 (July 1, 2021 to June 30, 2022). The scope of work for this task includes data verification of the stormwater laboratory analysis results, compiling the analysis results into a database, and calculating the E. coli loading to compare with the Waste Load Allocation (WLA) for the qualifying storm events. The stormwater compliance monitoring is being conducted separately by Daniel B. Stephens & Associates, Inc. (DBS&A) and is not a part of this on-call task. This task is being conducted to assist the CMC members with their comprehensive monitoring and assessment program for compliance under the 2014 Middle Rio Grande (MRG) Watershed Based Municipal Separate Storm Sewer System (MS4) Permit, NPDES Permit No. NMR04A000 ("WSB MS4 Permit").

The WSB MS4 Permit entered Administrative Continuance in December 2019 when U.S. Environmental Protection Agency (EPA) Region 6 did not issue a new MS4 Permit before the current MS4 Permit's expiration date. The MRG Technical Advisory Group (TAG) sent EPA a letter dated October 15, 2019, acknowledging Administrative Continuance after the expiration date of the 5-year Permit term. Until a new MS4 Permit is issued, there are no compliance monitoring requirements for the CMC in the Rio Grande. As identified in the CMC Monitoring Plan, the WSB MS4 Permit required a minimum of seven (7) storm events be sampled at both the Rio Grande North and Rio Grande South locations (refer to Figure 1, page 3). All Permit required samples have been obtained by the CMC, as well as two (2) samples obtained in FY 2021 and the one (1) sample obtained in FY 2022 wet season during Administrative Continuance; all CMC samples are summarized in Table 2 below.

Table 2: CMC Sample Summary Compared to WSB MS4 Permit Requirements

| No. of Storm Events Required to Sample | CMC-WSB MS4 Permit Required Samples per Season | FY (Date) Samples Obtained for CMC | | |
|--|--|---------------------------------------|--|--|
| 1 | #1 Wet Season | FY 2017 (8/10/2016) | | |
| 2 | #2 Wet Season | FY 2017 (9/12/2016) | | |
| 3 | #3 Wet Season | FY 2017 (9/21/2016) | | |
| 4 | #1 Dry Season | FY 2017 (11/21/2016) | | |
| 5 | #2 Dry Season | FY 2019 (3/13/2019) | | |
| 6 | Any Season | FY 2018 (Wet Season - 7/27/2017) | | |
| 7 | Any Season | FY 2018 (Wet Season - 9/27/2017) | | |
| Not Required | Wet Season | FY 2021 (10/28/2020) | | |
| Not Required | Dry Season | FY 2021 (4/28/2021) | | |
| Not Required | Wet Season | FY 2022 (9/1/2021) | | |

During the WSB MS4 Permit Administrative Continuance, the CMC members chose to continue sampling within the Rio Grande to support their MS4 program needs and gather additional data in support of the future MS4 Permit compliance. This memo reports on the wet weather stormwater monitoring activity for the FY 2022 dry season (November 1, 2022 to June 30, 2022).



CMC Wet Season, Wet Weather Stormwater Monitoring FY 2022 Dry Season (November 1, 2022 to June 30, 2022) August 10, 2022 Page 4

Monitoring Activity Summary

The list below provides a summary of the CMC comprehensive monitoring program activities completed for the FY 2022 dry season from November 2021 through June 2022. One (1) non-qualifying storm event was sampled and analyzed during the FY 2022 dry season.

➤ June 22, 2022 – Only E. Coli for Rio Grande North and at Alameda Bridge. A sample was collected at the Rio Grande North location at 2:00 p.m. and at Alameda Bridge at 3:30 p.m. on June 22, 2022, and samples were taken to the laboratory for E. coli only tests. Based on the CMC review of the storm, it was determined this was not a qualifying storm event, hence further sampling or testing was conducted.

Stormwater Quality Database for CMC

As stated previously, there were no qualifying storm events sampled for the CMC during the FY 2022 dry season, wet weather monitoring. However, the June 22, 2022, E. coli samples were added to the CMC Excel database. The Hall Environmental Analysis Laboratory (HEAL) analysis reports for this monitoring season have been received, added to the database, and are provided with this memo (Attachment 1). The lab data entered is marked in the spreadsheet as "V" (verified), and data V&V has been completed (refer to Attachment 2). The updated database is also included with this memo.

Conclusions and Planning

During the FY 2022 dry season (November 1, 2021 to June 30, 2022), one (1) non-qualifying storm event was sampled by the CMC. E. coli samples were collected at the Rio Grande North monitoring location and at Alameda Bridge. The lab reports for these samples have been received, and this data has been entered into the CMC Excel database.

To summarize:

- ➤ The WSB MS4 Permit entered Administrative Continuance in December 2019 when U.S. Environmental Protection Agency (EPA) Region 6 did not issue a new MS4 Permit before the current MS4 Permit's expiration date. Until a new MS4 Permit is issued, there are no compliance monitoring requirements for the CMC in the Rio Grande. All MS4 Permit required samples have been obtained by the CMC, as well several samples collected during Administrative Continuance.
- ➤ There was not a qualifying storm event sampled by the CMC during the FY 2022 dry season (November 1, 2021 to June 30, 2022).

SG/ab

Attachments:

Attachment 1 – DBS&A Field Data & Hall Environmental Analysis Laboratory Reports with BHI Notes for FY 2022 Dry Season

Attachment 2 - FY 2022 Dry Season Completed Data Verification and Validation (V&V) Forms

Spreadsheet Included Separately:

Excel CMC Spreadsheet updated with water quality criterion details

ATTACHMENT 1

DBS&A FIELD DATA & HALL ENVIRONMENTAL ANALYSIS LABORATORY REPORTS WITH BHI NOTES FOR FY 2022 DRY SEASON

CMC Water Quality Results Database FY 2017 -FY 2021 Date: August 10, 2022 Summary of Lab Results for CMC samples

| Summary of Lab Results for CMC samples | | Rio Grano | ie - North - At | Angostura | a Dam | | | | | | | | | | | | | Rio Grande - Ala | meda Bridge (| (E. coli C | Only Samples) | | | | | | | | |
|--|--------------------------|---------------------------|---|-----------|----------------|----------------------------|---|--|--|-------------------------|--|-----------|--|----------------------------|---|--|---|-------------------------|---|------------|--|-------------------------|--|---|----------|--------------------------------------|---|--------------|--|
| Parameter | Permit Required Units | Provisional o Verified | 2022 CMC SAMPLE - EXTRA NORTH Collection Date 8/16/2021 Wet Season Sample Non Qualifying | | Check compared | Provisional or Verified | 2022 CMC SAMPLE - EXTRA NORTH Collection Date 9/01/2021 Wet Season Sample | Qualifier | Check compared to Water Quality Criterion | Provisional or Verified | 2022 CMC SAMPLE - EXTRA NORTH Collection Date 6/22/2022 Dry Season Sample Non Qualifying Storm Event | Qualifier | Check compared to Water Quality Criterion | Provisional or Verified | 2022 CMC SAMPLE - EXTRA SOUTH Collection Date 9/02/2021 Wet Season Sample | Qualifier | Check compared to Water Quality Criterion | Provisional or Verified | 2022 CMC SAMPLE - EXTRA ALAMEDA Collection Date 9/1/2021 Wet Season Pre-Storm Sample | Qualifier | Check compared to Water Quality Criterion | Provisional or Verified | 2022 CMC SAMPLE - EXTRA ALAMEDA Collection Date 9/2/2021 Wet Season Sample | Qualifier Check compar Water Quality C | riterion | At Colle 6/ Dry S Non | 22 CMC PLE - EXTRA AMEDA AMEDA ction Date 22/2022 (Season iample Qualifying rm Event | Qualifier Ci | theck compared to ster Quality Criterio |
| Total Suspended Solids (TSS) | mg/L | | | | | v | 130 | | - | | | | | v | 790 | D | - | | | | | | | | | | | | |
| Total Dissolved Solids (TDS) | mg/L | | | | | v | 230 | D | OK | | | | | v | 330 | D | OK | | | | | | | | | | | | |
| Chemical Oxygen Demand (COD) | mg/L | | | | | v | 22.2 | | | | | | | ٧ | 54.2 | | - | | | | | | | | | | | | |
| Biochemical Oxygen Demand (BOD;) | mg/L | | | | | ٧ | 2.7 | RE | | | | | | v | 4.9 | | | | | | | | | | | | | | |
| Dissolved Oxygen (DO) | mg/L | V | 6.13 | | OK | ٧ | 6.98 | | OK | V | 7.66 | | OK | v | 6.92 | | OK | V | 7.06 | 3(11111111 | OK | V | 6.92 | OK | | v | 7.02 | | OK |
| Oil and Grease (N-Hexane Extractable Material) | mg/L | | | | | v | ND | | OK | | | | | v | ND | | OK | | | | | | | | | | | | |
| E. coli | MPN (CFU/100 mL) | v | 6,867 | | >WQ Standard | v | 183 | | >WQ Standard | v | 686.7 | | >WQ Standard | v | 4,884 | | >WQ Standard | v | 20.0 | | ОК | v | 554.0 | >WQ Standa | ard | v > | 2,419.6 | | >WQ Standard |
| рН | S.U. | v | 7.92 | | ОК | v | 8.63 | | OK | v | 8.27 | | ОК | v | 8.11 | | ОК | v | 8.37 | | OK | v | 7.72 | ОК | | v | 7.67 | | ОК |
| Total Kjedahl Nitrogen (TKN) | mg/L | | | | | V | 4.1 | | | | | | | ٧ | 2 | JD | | | | | | | | | | | | | |
| Nitrate plus Nitrite Dissolved Phosphorous | mg/L mg/L | | | | | v | ND 0.15 | D | OK | | | | | v | 1.8 | D | ОК | | | | | | | | | | | | |
| Ammonia (mg/L as N) | mg/L | | | | | v | 0.42 | 1 | OK | | | | | v | ND ND | - | OK | | | | | | | | | | | | |
| Total Nitrogen | mg/L | | | | | ٧ | 4.52 | J | OK | | | | | ٧ | 3.80 | | ОК | | | | | | | | | | | | |
| Total Phosphorous | mg/L | | | | | v | 0.29 | D | | | | | | ٧ | 1.3 | D | | | | | | | | | | | | | |
| PCBS - 0.000064 (Method 1668A - sum of all congeners) | μg/L | | | | | v | 0.00027 | 1 | >WQ Standard | | | | | v | 0.00172 | 1 | >WQ Standard | | | | | | | | | | | | |
| Gross Alpha, Adjusted | pCi/L | | | | | v | 4.94 | Note - Gross Alpha was reported, not adjusted gross alpha. Calculation completed to determine adjusted gross alpha. | OK | | | | | ٧ | 31.56 | Note - Gross Alpha was reported, not adjusted gross alpha. Calculatio completed to determine adjusted gross alpha. | s on >WQ Standard | | | | | | | | | | | | |
| Tetrahydrofuran | μg/L | | | | | v | ND | | | | | | | v | ND | | | | | | | | | | | | | | |
| Benzo(a)pyrene | μg/L | | | | | v | ND | | OK | | | | | v | ND | | OK | | | | | | | | | | | | |
| Benzo[b]fluoranthene (other name: 3,4- Benzofluoranthene) | μg/L | | | | | v | ND | | OK | | | | | v | ND | | ОК | | | | | | | | | | | | |
| Benzo(k)fluoranthene | μg/L | | | | | v | ND ND | | OK | | | | | V | ND ND | | OK | | | | | | | | | | | | |
| Chrysene Indeno(1,2,3-cd)Pyrene | μg/L μg/L | | | | | v | ND ND | | OK OK | | | | | v | ND ND | | OK | | | | | | | | | | | | |
| Dieldrin | μg/L | | | | | v | ND | | OK | | | | | v | ND | | OK | | | | | | | | | | | | |
| Pentachlorophenol | μg/L | | | | | v | ND | | OK | | | | | v | ND | | OK | | | | | | | | | | | | |
| Benzidine | μg/L | | | | | v | ND | | OK | | | | | v | ND | | OK | | | | | | | | | | | | |
| Benzo(a)anthracene | μg/L | | | | | v | ND | | OK | | | | | v | ND | | ОК | | | | | | | | | | | | |
| Dibenzofuran | μg/L | | | | | v | ND | | | | | | | v | ND | | - | | | | | | | | | | | | |
| Dibenzo(a,h)anthracene | μg/L | | | | | v | ND | | OK | | | | | v | ND | | OK | | | | | | | | | | | | |
| Chromium VI (Hexavalent) | μg/L | | | | | V | ND | | OK | | | | | V | ND | | OK | | | | | | | | | | | | |
| Dissolved Copper | μg/L | | | | | v | 0.84 | J | OK | | | | | v | 1.5 | | OK | | | | | | | | | | | | |
| Dissolved Lead | µg/L | | | | | v | 0.065 | 1 | OK | | | | | v | 0.32 | ī | OK | | | | | | | | | | | | |
| Bis (2-ethyhexyl) Phthalate (other names: Di(2- ethylhexly)phthalate, DEHP) - 2.2 | μg/L | | | | | v | ND | | ОК | | | | | v | ND | | ОК | | | | | | | | | | | | |
| Conductivity | umhos/cm | V | 591 | | - | v | 315 | | | v | 293 | | - | ٧ | 484 | | - | v | 375 | | - | ٧ | 383 | - | | v | 287 | | - |
| Temperature | °c | V | 21.24 | | ОК | V | 21.71 | | OK | V | 18.8 | | OK | v | 21.21 | | OK | v | 23.19 | | OK | v | 22.14 | OK | | v | 22.1 | ,,,,,,, | ОК |
| Hardness (as CaCO ₂) | mg/L | | | | | v | 160 | | ** | | | | | v | 290 | | | | | | | | | | | | | | |
| Mercury | μg/Ι | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Casa Verification Availation and Qualifier Kosas:

(ii) Sample holding time exceeded because certain criteria were not met. The analyte may or may not be present in the sample.

(ii) Sample holding time exceeded because certain criteria were not met. The analyte may or may not be present in the sample.

(iii) Sample holding time exceeded because the sample of the sample was distorted by its due to martin

(iii) Analyte was analyted for, but not derectived above the specified detection limit.

(U) Nevery the anterpts or a, we have been a constructed on the Construction of the Watershed Based MS4 Permit NMR044000.

1. West Season monitoring period - Javly 1 to October 31 and Dry Season monitoring period - November 1 to June 30 according to the Watershed Based MS4 Permit NMR044000.

2. Water Capillary Criterion from 20.6 A 19 MANC, 150 of Carade Basin - section 20.6 A 105; for a mean monthly fixed of 100 cft, monthly average 3. Aquatic file criteria for metals are sequenced as a function of totall 4. According to NMAC, 20.6 A, Coll bacteria for Primary Contact - monthly 5. Water capilly criterion for metals is sequenced as a function of totall 4. According to NMAC, 20.6 A, Coll bacteria for Primary Contact - monthly 5. Water capilly criterion for metals is sequenced as disclosed metals, MMAC, 20.6 A, 500.01 and individual sample results compared to accele training for the control of t

ND - analyte not detected above the laboratory method detection limit NA - not analyzed Hatching also indicates that parameter was not analyzed



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

June 28, 2022

Patrick Chavez
AMAFCA
2600 Prospect Ave NE
Albuquerque, NM 87107
TEL: (505) 884-2215

FAX:

RE: CMC OrderNo.: 2206C11

Dear Patrick Chavez:

Hall Environmental Analysis Laboratory received 2 sample(s) on 6/22/2022 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman

Laboratory Manager

Only

4901 Hawkins NE

Albuquerque, NM 87109

Field Parameters

Rio Grande North-

Temp = 18.80 °C

pH = 8.27

Conductivity (uS/cm=umho/cm) = 293

Dissolved Oxygen (mg/L) = 7.66

Rio Grande Alameda-

Temp = 22.10 °C

pH = 7.67

Conductivity (uS/cm=umho/cm) = 287

Dissolved Oxygen (mg/L) = 7.02

Analytical Report

Lab Order 2206C11

Date Reported: 6/28/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AMAFCA Client Sample ID: RG - North - 20220622

Project: CMC Collection Date: 6/22/2022 2:00:00 PM

Lab ID: 2206C11-001 **Matrix:** AQUEOUS **Received Date:** 6/22/2022 4:05:00 PM

| Analyses | Result | RL Qua | al Units DF | Date Analyzed |
|---------------------------------------|--------|--------|-------------|----------------------|
| SM 9223B FECAL INDICATOR: E. COLI MPN | | | | Analyst: dms |
| E. Coli | 686.7 | 1.000 | MPN/100 1 | 6/23/2022 5:28:00 PM |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 1 of 2

Analytical Report

Lab Order 2206C11

Date Reported: 6/28/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AMAFCA Client Sample ID: RG - Alameda - 20220622

Project: CMC Collection Date: 6/22/2022 3:30:00 PM

Lab ID: 2206C11-002 **Matrix:** AQUEOUS **Received Date:** 6/22/2022 4:05:00 PM

| Analyses | Result | RL Qua | al Units DF | Date Analyzed |
|---------------------------------------|---------|--------|-------------|----------------------|
| SM 9223B FECAL INDICATOR: E. COLI MPN | | | | Analyst: dms |
| E. Coli | >2419.6 | 1.000 | MPN/100 1 | 6/23/2022 5:28:00 PM |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

| Client Name: | AMAFCA | Work Order Nu | ımber: 220 | 6C11 | | | RcptNo: 1 | |
|-----------------------------|--|---------------------------------------|------------|---|--------|------------------|---|---------------|
| Received By: | Andy Freeman | 6/22/2022 4:05:0 | 0 PM | | Ona | | _ | |
| Completed By: | Isaiah Ortiz | 6/22/2022 4:20:0 | 2 PM | | 7 | ~ C | 2-4 | |
| Reviewed By: | f 6.22-2 | z @ 16:39 | | | | | | |
| Chain of Cust | tody | | | | | | | |
| 1. Is Chain of Cu | stody complete? | | Yes | V | No | | Not Present | |
| 2. How was the s | sample delivered? | | Clier | <u>nt</u> | | | | |
| Log In 3. Was an attempt | pt made to cool the sa | amples? | Yes | ✓ | No | | na 🗆 | |
| 4. Were all sample | les received at a temp | perature of >0° C to 6.0°C | Yes | V | No | | NA 🗆 | |
| 5. Sample(s) in p | roper container(s)? | | Yes | V | No | | | |
| 6. Sufficient samp | ole volume for indicate | ed test(s)? | Yes | V | No | | | |
| 7. Are samples (e | except VOA and ONG | properly preserved? | Yes | ~ | No | | | |
| 8. Was preservati | ve added to bottles? | | Yes | | No | V | NA 🗆 | |
| 9. Received at lea | ast 1 vial with headspa | ace <1/4" for AQ VOA? | Yes | | No | | NA 🗸 | |
| 10. Were any sam | ple containers receive | ed broken? | Yes | | No | ✓ | # of preserved | |
| | k match bottle labels? | | Yes | V | No | | bottles checked for pH: | unless noted) |
| | orrectly identified on C | | Yes | ~ | No | | Adjusted? | |
| 13. Is it clear what | analyses were reques | sted? | Yes | ~ | No | | 1,00 | 1 |
| | g times able to be me stomer for authorizatio | | Yes | ✓ | No | | Checked by: KYC | 1620 |
| | ng (if applicable) | | | | | | | |
| | ified of all discrepanci | | Yes | | No | | NA 🗹 | |
| Person N | Notified: | Da | te: | *************************************** | | mountair | | |
| By Whon | m: [| Via | : еМа | ail 🔲 | Phone | Fax | ☐ In Person | |
| Regardin | - 6 | | | | | ententarios pro- | *************************************** | |
| Client Ins | structions: | | | | | | | |
| 16. Additional rem | narks: | | | | | | | |
| 17. Cooler Inform Cooler No | Temp °C Condition 16.8 Good | on Seal Intact Seal No Not Present | Seal Da | ate | Signed | Ву | | |

| Chain-of-Custody Record Client: AM AFCA | Turn-Around | d □ Rusl | h | HALL ENVIRONMENTAL ANALYSIS LABORATORY | | | | | | | | | | | | | | |
|---|--------------------------|----------------------|----------------------|--|----------------------------|----------------------|--------------------|-----------------|---------------|-----------------------------------|---------------|-----------------|---------------------------------|---------------|---------------------------------|------------|---------------|-------------|
| NA-W | Project Nam | | | 61 | | | | | | | | men | | | | | | |
| Mailing Address: | CMC | <u></u> | | | 49 | 01 H | | | | | | | | | 7109 | | | |
| | Project #: | | | | | |)5-34 | | | | | | | -410 | | | | |
| Phone #: | | | | | | | | | Α | naly | sis | Req | uest | t | | | | |
| email or Fax#: PChGJPZ C AMAGA.0.55 QA/QC Package: □ Standard □ Level 4 (Full Validation) | Project Mana | ager: cK Cha | VEZ- | TMB's (8021) | TPH:8015D(GRO / DRO / MRO) | PCB's | | 8270SIMS | | PO ₄ , SO ₄ | | | Total Coliform (Present/Absent) | enumental | | | | |
| Accreditation: Az Compliance | Sampler: | | | TMB | / DR | 082 | - | 827(| | NO ₂ , | | | eser | мега | | | | |
| □ NELAC □ Other □ EDD (Type) | On Ice: # of Coolers: | ⊻ Yes | □ No | E / . | SRO | es/8 | 504 | ≒۱ | - 1 | | | (OA) | P. | ٢ | | | | |
| | | | ,7+0.1 = 16.8 (°C) | MTB |) (G | ticid | thod | 831 | Meta | Br, NO ₃ , | <u>{</u> | j- - | form | Ì | | | | |
| Date Time Matrix Sample Name | Container Type and # | Preservative Type | | BTEX/ MTBE | TPH:801 | 8081 Pesticides/8082 | EDB (Method 504.1) | PAHs by 8310 or | RCRA 8 Metals | Cl, F, Br, | 8260 (VOA) | 8270 (Semi-VOA) | Total Coli | Ecoli | | | | |
| 6.22.22 1400 AQ RG-North- 202206 | 22, | | 001 | | | | | | _ | ٦ | ~ | ~ | | X | \dashv | \top | + | + |
| 6.22.22 1530 AQ RG-Alameda-2022 | 223 | | 20 Z | | | | | 7 | | | | | - 11 | X | \Box | \top | + | + |
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| Date: Time: Relinquished by: | | | | | | | | \top | | | | | 1 | \top | | \uparrow | \Rightarrow | |
| Date: Time: Relinquished by: 21-11-1605 Date: Time: Relinquished by: | Received by: | Via: | Date Time Date Time | Rema | arks | : | | • | , | | | | | | i P | | | |

CMC Sampling Data Sheet

Site Identification:

RG-North

Notes:

onsite ~ 12:50

Full Suite Sample Date and Time: 6/22/22 1400

RG- North- 20220622 Full Sample Identification:

QC Samples: Duplicate / None QC Sample ID:

QC samples require a DIFFERENT sample time than the environmental sample.

QC Sample time:

Full Suite Collection Point: MRGCD Dam Structure

Full Suite Sample Volume:

0 501

Collection Time Start: 1315

End:

400

Field Parameters for each 2-gallon grab

| Grab | Time | Temp (°C) | рН | Specific Conductance (µS/cm) | Dissolved Oxygen (mg/L) | Dissolved Oxygen (%) |
|--------------------|-----------|--------------|-----------------|------------------------------------|-------------------------------|----------------------------|
| 1 | 1315 | 19.27 | 8.30 | 295 | 7.54 | 81.6 |
| 2 | 1330 | 19.04 | 8.20 | 292 | 7.97 | 85.8 |
| 3 | 1345 | 18.97 | 8.27 | 290 | 8.27 | 84.8 |
| 4 | 1400 | 18.91 | 8.26 | 288 | 7-90 | 83.9 |
| Composite | • | 18.80 | 8.27 | 293 | 7.66 | 82.1 |
| ≰ Turbid Wa | ter AColo | BOWN | A Solids | s □Oil/Sheen △ | □Foam □Odor_ | |

Analytical - see 2021 COC table

Site Photo Sample Photo

| C | hain | -of-Cເ | ıstody Record | Turn-Around | Time: | | | | | | | | | _ | | /T I | | | <u> </u> | | | |
|---------|--------------|------------|-----------------------------|------------------------------|--|----------------------------------|------|--------------|----------------------------|----------------------------|--------------------|--------------------------|---------------|-------------------------------------|------------|-----------------|---------------------------------|----------|-----------|---------------|--------------|---|
| Client: | | MAFO | | Standard | ☐ Rush | 新 斯斯斯斯斯斯 Art Article I | | | | | | | | | | | | | | | AL OR' | |
| | | | | 1 - | | | | - | | | , | www | .hall | lenv | ironr | nent | al.co | om | | | | |
| Mailing | Address | 5 : | | CWC | , | | | | 49 | 01 H | awki | ns N | E - | Alb | uqu | erqu | e, NI | M 87 | 109 | | | |
| | | | | Project #: | | | | | | | 5-34 | | | | | | | -4107 | | | | |
| Phone | #: | | | | | | | | | | | | | | | Req | | | | | | |
| email c | r Fax#: | ocha. | JPZ @ AMARIA.014 | Project Mana | iger: | | | £ | 6 | | | | | SO ₄ | | | £ | | | | | |
| | Package: | 1 | 5 | Patio | ck Cha | Je Z_ | | 302 | ΑŘ | B's | | SN | | | | | pse | 8 | | | | |
| □ \$tar | dard | | ☐ Level 4 (Full Validation) | 75(1) | | | | 3,8 (8 | ò | 8 | | | | 8 | | | 절 | 2 1 4 | | | | |
| | itation: | | ompliance | Sampler: | | | | TMB's (8021) | TPH:8015D(GRO / DRO / MRO) | 8081 Pesticides/8082 PCB's | - | PAHs by 8310 or 8270SIMS | Ī | NO ₂ , PO ₄ , | | | Total Coliform (Present/Absent) | numbered | | | | |
| □ NEL | | □ Other | • | On Ice: | □ Yes | □ No | | ~ | 8 | es/8 | 20 | Ö | - 1 | | | Q | <u>=</u> | 2 | | | İ | |
| □ EDL | (Type) | <u> </u> | | # of Coolers: Cooler Temp | The state of the s | | (°C) | BTEX/MTBE | 9 | ticid | EDB (Method 504.1) | 831 | RCRA 8 Metals | Cl, F, Br, NO ₃ , | ₹ | 8270 (Semi-VOA) | lorr. | ġ | | | İ | |
| | | | | | (manufig GF)2 | | | ~ | 3015 | Pes | Me | ρ | 8 | Ä, | 8 | Ser | 흥 | 190 | | - } | | |
| | | | | Container | Preservative | HEAL No. | | ŭ | 꿅 | 8 |)B(| 뷝 | 鮗 | πŢ | 8260 (VOA) | 02: | <u>ğ</u> | Ec. | | | | |
| Date | | Matrix | Sample Name | 1 | Туре | | | <u>'a</u> | <u> </u> | <u></u> | 쁴 | 4 | ~ | ᅙ | 8 | 8 | 픠 | | | \dashv | | |
| | 1400 | A6 | RG-North 202706 | | | | | | | | | | | | | | | X | | | | |
| 6.22.22 | 1530 | Au | RG- Alamoda - 20220 | 622 | | | | | | | | | | | | | | X | | | | |
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| Date: | Time: | Relinguish | <u>}</u> | Received by: | Via: | Date Time | e | Ren | l | l s: | | | 1 | | | 1 | | | | | | ` |
| 6-28-66 | 1605 | | ah / | Suls | 1.1 | 6/12/62 | 1625 | } | | | | | | | | | | | | | | |
| Date: | Time: | Relinquish | ed by: | Received by: | Via: | Date Time | e | | | | | | | | | | | | | | | |
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| Samplers | 15 | ل | K |
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| | | | |

CMC Sampling Data Sheet

| | | <u> </u> | , Gaiii | Jilly Data | Onoot | |
|-------------------------|-----------------|---------------------------------------|------------|------------------------------------|-------------------------------|----------------------------|
| Site Identific | ation: RG | 5-Alam | eda | | | |
| Notes: | | | | | | |
| | | · · · · · · · · · · · · · · · · · · · | | | | |
| Full Suite S | Sample Date | and Time: | RG-A | tomeda | 6/22/22 | 1536 |
| Full Sample | e Identificatio | on: | RG-A | Hameda-: | 20220622 | |
| QC Sample | s: Duplica | ate / None | QC Sa | ample ID: | | |
| QC samples QC Sample | | FFERENT sa | ample time | than the environ | mental sample. | |
| Full Suite C | Collection Po | int : B 🔿 | del | | | |
| Full Suite Sa | ample Volume | e: 2 | eduso | Collection Time St | art: E | nd: |
| Field Paran | neters for eac | ch 2-gallon | grab | | | |
| Grab | Time | Temp (°C) | рН | Specific Conductance (µS/cm) | Dissolved Oxygen (mg/L) | Dissolved Oxygen (%) |
| 1 | | | | | | |
| 2 | | | | | | |
| 3 | | | | | | |
| 4 | | | | | | |
| Composite | 1530 | 22:10 | 7.67 | 287 | 7.02 | 79.6 |

Analytical - see 2021 COC table

⊈Turbid Water

Site Photo Sample Photo

□Oil/Sheen

□Foam

□ Odor_

XSolids

ECOlor BOUN

| NOSISKEE BEENE SON | DEIGALIERATION | NOBREHE | | SERVISORY VOYZOT |
|--|--|---|--|-------------------------------------|
| Sonde ID: O 6K 169 Bate/Tir | ne: 6/22/22 | 1300 | Technician: | CMJ |
| Reason for Calibration:C N | 1C Sampling | | | |
| Battery Voltage: | (6920 & 600 XLM on | ly) | • | |
| Specific Conductance: Standard Used (mS) 1413 | Calibration V | alues . Cell Const | | 5 +/0.5) |
| pH 7 Buffer: (first) 4 Buffer: (second) 10 Buffer: (third) Note: Span between pH 7 and p | Calibration Value Post | mV -1.0 165.6 | (Range: 0 rr (Range: +17 (Range: -177 proximately 1 | 7 from pH 7) |
| DO % Sat. Membrane Change | | probe at leas , wait 6 to 8 h | st 15 mins be rs before cali | fore calibration. bration / use. |
| DO Charge | (Range: 50 +/- 25) | | | |
| mm Hg 631.3 Turbidity Wiper Changed? Y | 76. 84.[| ues % . DO Gain* / rks ~180 degr | | (0.7 to 1.5)) ic port? Y/N |
| Standards Valu | | · | | on Values |
| Zero | (Always First) | | Initial | Post Cal. |
| Note: Use longer probe guard w | ith black turb probe; sho | rter guard with | h grey probe. | |
| Turn off handset (650MDS). Wai with a high value and descend to Note: Disregard the first two rea Accept? | the calibration value in 1 dings as they may be aff | on and enter to 2 minutes | "Run". DO % . If it does n warm-up proc | ot, reject. |
| - - | Calibration Con | nments | | |
| | | · · · · · · | | |
| | | · · · | - | |
| * Found in: I | Main Menu> Sonde Me | enu> Advar | nced> Calib | pration Constants |

ATTACHMENT 2 FY 2022 DRY SEASON COMPLETED DATA VERIFICATION AND VALIDATION (V&V) FORMS

Attachment 1.1 Water Quality Sample Data Verification and Validation Worksheet **Study Name: Compliance Monitoring Cooperative (CMC)** Year: FY 2022 (June 2022 - Dry Season Sample) Project Coordinator: For Data Review and Reporting - SJG, BHI **V&V** Reviewer: SJG Data covered by this worksheet: Rio Grande North - 6/22/22 - E. coli Only Sample - Was Not Qualifying Storm Event Version of Verification/Validation Procedures: QAPP -AMAFCA SOP #5 (7/2022) **Step 1: Verify Field Data** A. Are all Field Data forms present and complete? Yes No If yes, proceed; if no, attempt to locate missing forms, then indicate any remaining missing forms and action taken. Missing Field Data Forms Action Taken Total number of occurrences: 0 B. Are station name and ID, and sampling date and time on forms consistent with database? Yes No If yes, proceed; if no, indicate errors identified, correct errors in database and re-verify. Station and Parameter Action Taken Re-verified? Total number of occurrences: 0 C. Are field data on forms consistent with database? \boxtimes Yes \square No If yes, proceed; if no, indicate errors identified, correct errors in database and re-verify. Parameter(s) Sampling Station Re-verified? Corrected Date

Total number of occurrences: 0

| | g. Field observa | ect and associated wit ation, Routine sample No | | cal suite, media subo | division (e.g. surface | water, municipal v | waste, etc.) and activity ty | Э |
|------------|----------------------------------|--|---------------------------------------|-------------------------|---|---------------------|------------------------------|-----------|
| If y | es, proceed; if | no, indicate errors ide | ntified, correct errors | s in database and re | -verify | | | |
| Ī | Sta | ation/RID | Sampling F | RID Corrected | Re-verified? | | | |
| Tot | al number of | occurrences: 0 | | | | | | |
| | | | | | ⊠ S1 | tep 1 Completed | Initials: SJG Date: 8/9/ | <u>22</u> |
| A. If y | Have all data in es, proceed; if | n question been delivent in the complete this submittal Date | missing data (samp | oles or blanks) or atta | ach report with applic Date Missing Data Were | cable RIDs highligl | hted. Contact data source | |
| | טוא | Submittal Date | Data/Parameters | Verification | Received | | | |
| | | occurrences: 0 | the correct numb | or and type of analy | vtes. ⊠ Yes □ | No. | | |
| If y | | no, indicate RIDs with | | | | | d. Contact data source ar | ıd |
| | RID | Submittal Date | Missing or Incorrect Parameters | Action Taken | Re-verified? | | | |
| | | <u></u> | l | | | | | |

| | | | | | ⊠ Step 2 Com | pleted | Initials: SJG | Date: 8/9/22 |
|---|----------------|---|--------------------------------|---|----------------------------|--------|----------------------|---------------------|
| Step 3: Verify Flow Data *Note – Not Applicable – n | o flow data | provided with C | | etion | | | | |
| AIdentify incorrect or mis | | | | | | | | |
| Station | | Sampling Date | Flow data miss or incorrect | | | | | |
| Total number of occurre | nces: <u>0</u> | | | | | | | |
| B. Identify incorrect or mis | sing discha | arge measureme | ents, correct errors | s in database and re | -verify. | | | |
| Station | | Sampling Date | Flow data miss or incorrect | · RA-VAIII | ed? | | | |
| | | | | | | | | |
| Total number of occurren | nces: <u>0</u> | | | | Not Applicable Step 3 Com | | Initials: SJG | Date: 8/9/22 |
| Step 4: Verify Analytical | Results for | r Missing Inforr | nation or Questi | onable Results | · | | | |
| Were any results with miss | sina/auestio | nable informatio | n identified? ☐ Y | ∕es ⊠ No | | | | |
| If no, proceed; if yes, indicataken. Complete this step of change results without write | ate results v | with missing info ot of missing info | rmation or question | onable results or atta ation of questionable | e results (clarify que | | | |
| RID Sam | ple Date | | Questionable on/Results | Action Taker | ı | | | |
| Total number of occurre | nces: <u>0</u> | | | | ⊠ Step 4 Com | pleted | <i>Initials:</i> SJG | Date: 8/9/22 |

| | alidate Blan analytes of o | ks Results concern detected | in blank san | nples? | ∕es ⊠ |] No | | | | | |
|--------------------------------|---|--|--|---------------|------------------------|-------------|---|--------------------------------------|--------------|----------------|-------------------------|
| officer or | Program Mai | ist results that neonager, with a requed to database co | est to add a | | | | | | | | |
| RI | D S | Sample Date | Param | eter | [Blank] | [Sample | Validatio n Code/Fla g Applied | Code/Flag verified ir database | i | | |
| | | | | | | | | | | | |
| *See valid | dation proced | lures to determine | e which asso | ciated data | need to | be flagged | I and include | on Validati | on Codes F | Form. | |
| Total nur | nber of occu | ırrences: <u>0</u> | | | | | | | | | |
| | | | | | | | | Sten 5 | Completed | l Initiale: 9 | SJG Date: 8/9/22 |
| Were any If no, procofficer or | samples sub ceed; if yes, l Program Mar | ling Times Violate omitted that did not ist results that new nager with a required added to databate | ot meet spec ed to have va est to add ap | alidation cod | des appli | ed in the o | latabase sav | e these res | ults as an e | excel file and | d forward to QA |
| RID | Sample Date | Parameter | [Blank] | [Sample] | Valida Code, App | /Flag ir | Code/Flag ver database to essociated da | ALL | | | |
| | | | | | | | | | | | |
| Total nur | nber of occu | ırrences: 0 | 1 | 1 | 1 | I | | | | | |
| | | | | | | | | ⊠ Sten 6 (| Completed | Initials: S | SJG Date: 8/9/22 |
| | | | | | | | | | Jonipicieu | | <u> </u> |
| | | | | | | | | | | | |

| Were any rep Yes S If no, proceed officer or Proc | ; if yes, list results tha gram Manager with a r | submitted outsi t need to have request to add | de of the esta | des applie | d in the datab | ase save the | | | |
|---|---|---|----------------|------------|------------------------------------|---|----------------|----------------------|----------------------|
| codes/flags ha | Replicate or Duplicate? | Sample Date | Parameter | RPD | Validation Code/Flag Applied | Code/Flag verified in database applied?* | | | |
| Total number | r of occurrences: <u>0</u> | | | | | | ep 7 Completed | Initials: <u>SJG</u> | Date : 8/9/22 |
| I acknowledge | above steps have be | tion and valida | tion process h | | | | | | _ |
| Sach C | escribed in the CMC C | JAPP, SOP #2 | | 8/9/ | /22 Date | | | | |
| Data Verillei/ | andator digitatore | | | ' | Daie | | | | |

COMPLETION OF DATA VERIFICATION AND VALIDATION PROCESS

Once the data verification and validation process has been completed for the entire study (note: if the worksheet is for a subset of the data from a study, be sure ALL the data for the entire study is included before final completion of the data verification and validation process), notify the NMSQUID administrator that the process is complete and request that "V V in STORET" be added to the project title.

Once all data have been verified and validated for a study provide <u>copies</u> of ALL *Data Verification and Validation Worksheets* and attachments associated with the study to the Quality Assurance Officer and retain <u>originals</u> in the project binder.

Attachment 1.2 SWQB Validation Codes

When deficiencies are identified through the data verification and validation process, AMAFCA documents or "flags" the deficiencies by assigning validation codes. All data collected from the last compliant QC sample and up to the next compliant QC sample are assigned validation codes. The validation code alerts the data user that the results are outside QA control limits and may require re-sampling or a separate, qualitative analysis based on professional judgment.

| Validation Code | Definition | WQX Equivalent |
|--------------------|--|-------------------|
| A1 | Sample not collected according to SOP | |
| B1 | Chemical was detected in the field blank at a concentration less than 5% of the sample concentration. | |
| BN | Blanks NOT collected during sampling run | |
| BU | Detection in blank. Analyte was not detected in this sample above the method's sample detection limit. | BU |
| RB1 | Chemical was detected in the field blank at a concentration greater than or equal to 5% of the sample concentration. Results for this sample are rejected because they may be the result of contamination; the results may not be reported or used for regulatory compliance purposes. | В |
| R1 | Rejected due to incorrect sample preservation | R |
| R2 | Rejected due to equipment failure in the field | R |
| R3 | Rejected based on best professional judgment | R |
| D1 | Spike recovery not within method acceptance limits | |
| F1 | Sample filter time exceeded | |
| J1 | Estimated: the analyte was positively identified and the associated value is an approximate concentration of the analyte in the sample | J |
| K1 | Holding time violation | Н |
| Ea | Estimated-Incubation temperature between 35.5 and 38.0° Celsius | |
| Er | Rejected-Incubation temperature < 34.5 or >38.0° Celsius | |
| PD1 | Percent difference between duplicate samples excessive | |
| S1 | Per SLD, uncertainties (sigmas) are expressed as one standard deviation, i.e. one standard error. Small negative or positive values that are less than two standard deviations should be interpreted as "less than the detection limit." | |
| S2 | Data are suspect but deemed usable based on best professional judgment; documentation of justification is required and should be included in the Data Verification and Validation Packet and reported with results | |
| Z1 | Macroinvertebrate data did not meet QC criteria specified in Section 2.5 of QAPP | |
| H1 | Habitat data did not meet QC criteria specified in Section 2.5 of QAPP | |

Attachment 1.1 Water Quality Sample Data Verification and Validation Worksheet **Study Name: Compliance Monitoring Cooperative (CMC)** Year: FY 2022 (June 2022 - Dry Season Sample) Project Coordinator: For Data Review and Reporting - SJG, BHI **V&V** Reviewer: SJG Data covered by this worksheet: Alameda – 6/22/22 – E. coli Only Sample – Was Not Qualifying Storm Event Version of Verification/Validation Procedures: QAPP -AMAFCA SOP #5 (7/2022) Step 1: Verify Field Data A. Are all Field Data forms present and complete? ☐ Yes ☐ No If yes, proceed; if no, attempt to locate missing forms, then indicate any remaining missing forms and action taken. Missing Field Data Forms Action Taken Total number of occurrences: 0 B. Are station name and ID, and sampling date and time on forms consistent with database? \boxtimes Yes \square No If yes, proceed; if no, indicate errors identified, correct errors in database and re-verify. Station and Parameter Action Taken Re-verified? Total number of occurrences: 0 C. Are field data on forms consistent with database? \boxtimes Yes \square No If yes, proceed; if no, indicate errors identified, correct errors in database and re-verify. Parameter(s) Sampling Station Re-verified? Date Corrected

Total number of occurrences: 0

| | Stat | ion/RID | Sampling Date | RID Corrected | Re-verified? | | |
|--|--|--|---|---|---|--------------------------------------|--------|
| | | | | | | | |
| tal nun | mber of o | ccurrences: 0 | | | | | |
| | | | | | \boxtimes S | ep 1 Completed Initials: SJG Da | ate: |
| | | | | | | | |
| | | | | | | | |
| | | <u>a Deliverables</u> | | | | | |
| | | a Deliverables question been deliv | ered? ⊠ Yes □ | No | | | |
| Have a | all data in | question been deliv | | | and a second of the second | alda DIDa kishlisha di Oasaa daga | |
| Have a | all data in | question been deliv | n missing data (sam | ples or blanks) or att | ach report with appl | cable RIDs highlighted. Contact data | ì SOL |
| Have a | all data in | question been deliv | n missing data (sam | ples or blanks) or att | ach report with appl | able RIDs highlighted. Contact data: | 3 SOL |
| Have a res, pro d indica | all data in oceed; if nate action | question been deliv o, indicate RIDs with taken. Complete thi | n missing data (sam s step upon receipt | ples or blanks) or attoof all missing data. | Date Missing | able RIDs highlighted. Contact data | 3 SOL |
| Have a es, pro d indica | all data in | question been deliv | n missing data (sam s step upon receipt Missing | ples or blanks) or attoor all missing data. Date of Initial | Date Missing Data Were | able RIDs highlighted. Contact data | 3 SOU |
| Have a es, pro d indica | all data in oceed; if nate action | question been deliv o, indicate RIDs with taken. Complete thi | n missing data (sam s step upon receipt | ples or blanks) or attoof all missing data. | Date Missing | able RIDs highlighted. Contact data | રૂ કરા |
| Have a res, pro | all data in oceed; if nate action | question been deliv o, indicate RIDs with taken. Complete thi | n missing data (sam s step upon receipt Missing | ples or blanks) or attoor all missing data. Date of Initial | Date Missing Data Were | able RIDs highlighted. Contact data | 3 SOL |
| Have a | all data in occeed; if nate action | question been deliv o, indicate RIDs with taken. Complete thi Submittal Date | n missing data (sam s step upon receipt Missing | ples or blanks) or attoor all missing data. Date of Initial | Date Missing Data Were | able RIDs highlighted. Contact data | 3 SOU |
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| res, prod indicated tal numbers, produced ta | all data in occeed; if nate action RID mber of old the arocceed; if no occeed; if no | question been delived on the complete this submittal Date courrences: 0 malytical suites have on indicate RIDs with taken. | missing data (sams step upon receipt Missing Data/Parameters e the correct numl | ples or blanks) or attof all missing data. Date of Initial Verification Deer and type of analogous process. | Date Missing Data Were Received ytes. Yes | | |
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| | | | | \boxtimes § | Step 2 Completed | Initials: SJG | Date: 8/9/22 |
|--------------------|-------------------------------|--------------------|--|-------------------------|--------------------------------|----------------------|---------------------|
| | licable – no flow data | | CMC sample collection lation spreadsheet and | correct errors. | | | |
| | Station | Sampling Date | Flow data missing or incorrect? | | | | |
| | f occurrences: 0 | <u> </u> | | J | | | |
| B. Identify incorr | rect or missing disch Station | Sampling Date | Flow data missing or incorrect? | Re-verified? | | | |
| Total number o | f occurrences: <u>0</u> | | | | Applicable Step 3 Completed | Initials: <u>SJG</u> | Date: 8/9/22 |
| Step 4: Verify A | nalytical Results fo | or Missing Inform | mation or Questionab | le Results | | | |
| Were any results | s with missing/questi | onable information | on identified? Yes | ⊠ No | | | |
| taken. Complete | this step upon recei | pt of missing info | ormation or questionable ormation or clarification (A officer) and associate | of questionable results | | | |
| RID | Sample Date | | Questionable on/Results | Action Taken | | | |
| Total number o | f occurrences: <u>0</u> | | | ⊠ \$ | _ Step 4 Completed | Initials: <u>SJG</u> | Date: 8/9/22 |

| | idate Blanks nalytes of con | Results cern detected | in blank sam | nples? | Yes ⊠ |] No | | | | | | | |
|---------------|--------------------------------|---|---------------|---------------|------------------------|-----------|---|-----------|-------------|-------------------|----------------|---------------------|---|
| officer or Pr | ogram Manag | results that nee jer, with a requ o database co | est to add a | | | | | | | | | | |
| RID | San | nple Date | Parameter | | [Blank] | [Sample | Validatio Code/ ple n verifie Code/Fla databa g Applied * | | d in | | | | |
| *See valida | tion procedure | es to determine | which asso | ciated data | need to | be flagge | d and include | on Valida | ation Codes | : Form | | | |
| | per of occurre | _ | | | | | | ⊠ Step | 5 Complet | ed <i>Initia</i> | ls: <u>SJG</u> | Date: 8/9/22 | 2 |
| | | Times Violat tted that did no | | ified holding | g times? | ☐ Yes | ⊠ No | | | | | | |
| officer or Pr | ogram Manag | results that nee per with a reque Ided to databas | est to add ap | | | | | | | | | | |
| RID | Sample Date | Parameter | [Blank] | [Sample] | Valida Code, App | /Flag ir | Code/Flag ver n database to associated da | ALL | | | | | |
| | | | | | | | | | | | | | |
| Total numb | per of occurre | ences: <u>0</u> | | | | | | | | | | | |
| | | | | | | | | ⊠ Step | 6 Complete | ed <i>Initial</i> | s: <u>SJG</u> | Date: 8/9/22 | 2 |
| | | | | | | | | | | | | | |

| Step 7: Validate Re Were any replicate/d ☐ Yes ☐ No If no, proceed; if yes officer or Program M codes/flags have been | uplicate pairs su , list results that anager with a re | ubmitted outsi need to have equest to add | de of the esta validation cod | des applied | d in the datab | ase save the | | | |
|--|--|---|-------------------------------|-------------|------------------------------------|---|---------------------|----------------------|---------------------|
| RID Pairs | Replicate or Duplicate? | Sample Date | Parameter | RPD | Validation Code/Flag Applied | Code/Flag verified in database applied?* | | | |
| Total number of oc | currences: <u>0</u> | ****** | ****** | ***** | ****** | | ep 7 Completed | Initials: <u>SJG</u> | Date: 8/9/22 |
| After all of the above | steps have bee | en completed, | save and prin | t the work | sheet, attach | all applicable | supplemental info | ormation and si | gn below. |
| I acknowledge that the procedures describe | | | | nas been c | ompleted for | the data iden | tified above in acc | cordance with th | 10 |
| Darch County | | | | 8/9/ | 22 | | | | |
| Data Verifier/Validate | or Signature | | | | Date | | | | |

COMPLETION OF DATA VERIFICATION AND VALIDATION PROCESS

Once the data verification and validation process has been completed for the entire study (note: if the worksheet is for a subset of the data from a study, be sure ALL the data for the entire study is included before final completion of the data verification and validation process), notify the NMSQUID administrator that the process is complete and request that "V V in STORET" be added to the project title.

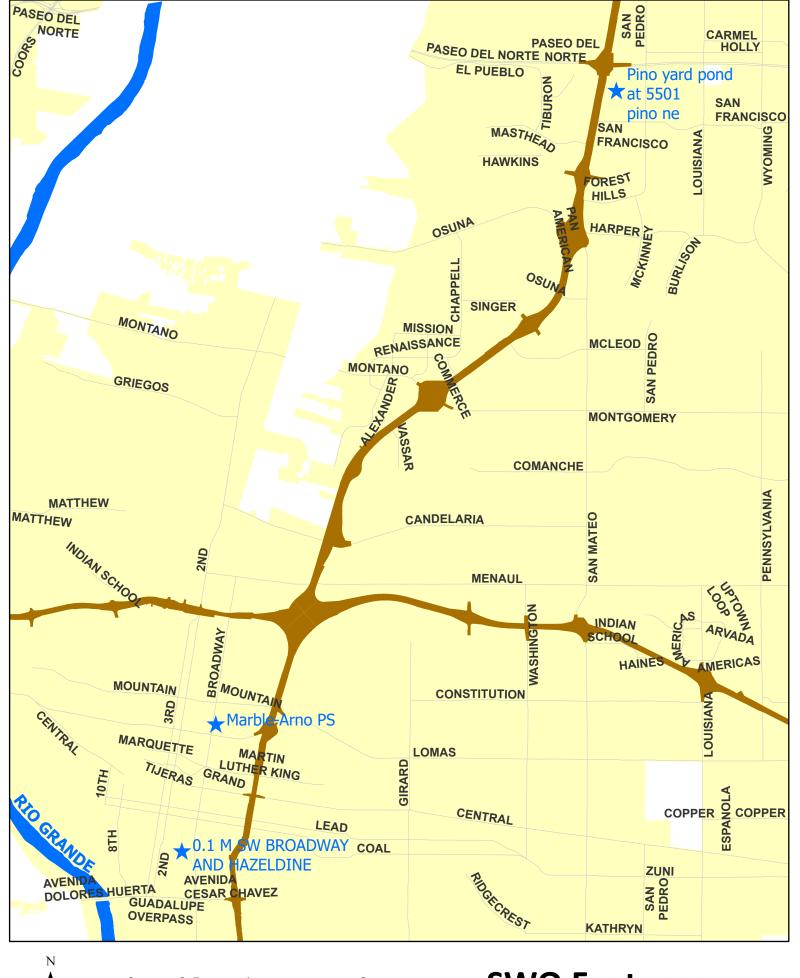
Once all data have been verified and validated for a study provide <u>copies</u> of ALL *Data Verification and Validation Worksheets* and attachments associated with the study to the Quality Assurance Officer and retain <u>originals</u> in the project binder.

Attachment 1.2 SWQB Validation Codes

When deficiencies are identified through the data verification and validation process, AMAFCA documents or "flags" the deficiencies by assigning validation codes. All data collected from the last compliant QC sample and up to the next compliant QC sample are assigned validation codes. The validation code alerts the data user that the results are outside QA control limits and may require re-sampling or a separate, qualitative analysis based on professional judgment.

| Validation Code | Definition | WQX Equivalent |
|--------------------|--|-------------------|
| A1 | Sample not collected according to SOP | |
| B1 | Chemical was detected in the field blank at a concentration less than 5% of the sample concentration. | |
| BN | Blanks NOT collected during sampling run | |
| BU | Detection in blank. Analyte was not detected in this sample above the method's sample detection limit. | BU |
| RB1 | Chemical was detected in the field blank at a concentration greater than or equal to 5% of the sample concentration. Results for this sample are rejected because they may be the result of contamination; the results may not be reported or used for regulatory compliance purposes. | В |
| R1 | Rejected due to incorrect sample preservation | R |
| R2 | Rejected due to equipment failure in the field | R |
| R3 | Rejected based on best professional judgment | R |
| D1 | Spike recovery not within method acceptance limits | |
| F1 | Sample filter time exceeded | |
| J1 | Estimated: the analyte was positively identified and the associated value is an approximate concentration of the analyte in the sample | J |
| K1 | Holding time violation | Н |
| Ea | Estimated-Incubation temperature between 35.5 and 38.0° Celsius | |
| Er | Rejected-Incubation temperature < 34.5 or >38.0° Celsius | |
| PD1 | Percent difference between duplicate samples excessive | |
| S1 | Per SLD, uncertainties (sigmas) are expressed as one standard deviation, i.e. one standard error. Small negative or positive values that are less than two standard deviations should be interpreted as "less than the detection limit." | |
| S2 | Data are suspect but deemed usable based on best professional judgment; documentation of justification is required and should be included in the Data Verification and Validation Packet and reported with results | |
| Z1 | Macroinvertebrate data did not meet QC criteria specified in Section 2.5 of QAPP | |
| H1 | Habitat data did not meet QC criteria specified in Section 2.5 of QAPP | |

Attachment 2 FY2021 Storm Water Quality Features



À

0 0.5 1 2 Miles

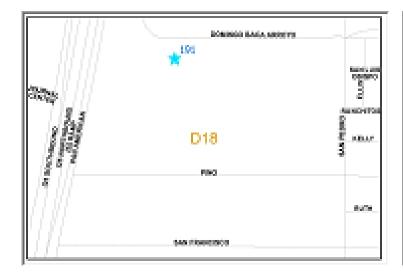
SWQ Features

LOCATION

PINO YARD POND AT 5501 PINO NE

STRUCTURE_NAME

SWQ POND LINING





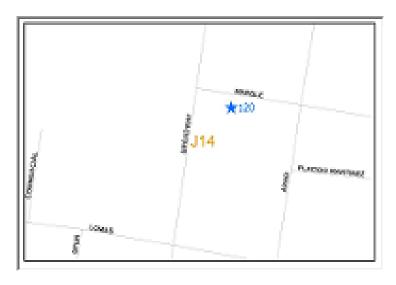
D18 City_Quad MAP_KEY NE Year_Built 2022 X:\MD\SHARE\MD-Storm\Ponds-Trash Racks-cat\2-TRASH RAC FIBER REINIFORCED SHOTCRETE (3" FOR THE BOTTOM, 2" FOR THE SIDES) NOTES SWQ SIZE 1656 SY LINING cost \$205,500 PROJECT_NO 52809 NUMBER 191

LOCATION

MARBLE-ARNO PS

STRUCTURE_NAME

MECHANICAL BARSCREEN





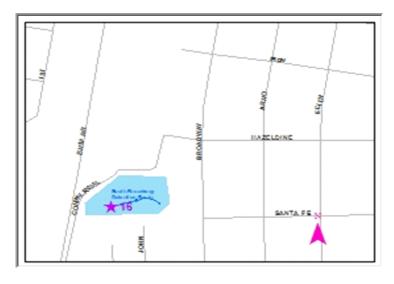
City_Quad J14 MAP_KEY NW Year_Built link X:\MD\SHARE\MD-Storm\Ponds-Trash Racks-cat\2-TRASH_RAC 2022 NOTES DUPERON FLEXRAKE TYPE FRHD SWQ SIZE 6' X 38' @1.5"X 9" CLEAR SPACING. cost \$315,400 PROJECT_NO 595892 NUMBER 120

LOCATION

0.1 M SW BROADWAY AND HAZELDINE SW

STRUCTURE_NAME

CONCRETE BOX SPILLWAY





City_Quad MAP_KEY K14 SW Year_Built 2021 X:\MD\SHARE\MD-Storm\Ponds-Trash Racks-cat\TRASH_RACKS INSIDE SOUTH BROADWAY POND NOTES 8' X 8' X 4 1/2' WITH 6" DIA TUBES 12" OC COVERED WITH 2" X SWQ SIZE cost \$122,000 2"WIRE MESH PROJECT_NO 797200, 802614 NUMBER 16

Attachment 3 Impervious Area Added

| ALCOSON DOTA DESCRIPTION OF DOTA DE | DRAINAGE FILE | PROJECT NAME/DES | ADDROVAL SOLICHT | MAPA2.REVIEW DATE APPROVED | DISCHARGE | ACRES IMP | WQ POND AT CO | SQ FT IMP FEE IN LIEU | AMOUNT PAID FEE IN LIEU |
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| | | | | | | 0.1 | | | |
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| COMMINE COLUMN | | | | | DETENTION | 0.662 | | | |
| Commons | | | | | EDEE | 1.00 | | | |
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| CHICAGO | | | | | FREE | | | | |
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| CEDISIDUAL SECRETORIST CO. PRIME C | | | | | | | | | |
| CHOONING PART PAR | | | | | | | | 24242 | £2.000.20 |
| COUNTY COLUMB C | | | | | | | | 21342 | \$3,699.28 |
| TOTAL COMMONS BY DATE PORCE NO. COPPEN | | | | | | | | | |
| CHOODING PAGE ROCKER | - | | CO-FERIVI | 27-3ep-21 1 | rice | 1.02 | ies | | |
| DIRECTION DIRE | | | CO-PERM | 14-Mar-22 Y | | | No | | |
| DEDOSEDIES MES PAMAGNO | | | | | DETENTION | 0.097 | | | |
| DIDDOORS GREAMAGEMO COPEM | D10D003D14 | 6419 CANAVIO NW | CO-PERM | 04-Apr-22 Y | DETENTION | 0.109 | Yes | | |
| DIDDOCKIES 1905 CAMANUS BIN NO CO-PRIM 20.000 TO TO TO TO TO TO TO | | 6416 PAPAGAYO | CO-PERM | 15-Jun-22 Y | | 0.164 | Yes | | |
| DIDDOGRAP GLI CAMMON N | | | | | | | | | |
| DEDODOSIA DEPTINO D. C. C. PERM | | | | | | | | | |
| DIRECTIONS DIRECTION DIR | | | | | | | | | |
| DIRECTION DIRE | | | | | | | | | |
| DEDODOCATE DESCRIPTION | | | | | - | | | | |
| DEDOCORIES 640 CANNOTO P. RW DOCUMENT | | | | | | | | |
| DEDODODIA DEDODODIA DESCRIPTION DESC | D10D003E3 | 6420 CANAVIO PL NW | | 18-Aug-21 Y | | | | | |
| DIDDOSE -12 RESEARCH NEW | D10D003E37 | | | 04-Aug-21 Y | DETENTION | 0.09 | Yes | | |
| DEDODOSCIALD COMPASS/MILES TO SETERATION CO. 12 Ye. | | | | | | | | | |
| DIODODOSCIA GOZO PERMONDO DO PRIM 13-May 22 Y OPTIMITION 0.12 Yes | | | | | | | | | |
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| DIDDOG03122 SIST ACOR NO REPUSION) | | | | | | | | | |
| DIRRODOSIES SOES PETRINGO O. PERM 27-34-21 O. PETRINTON 0.12 Yel | | | | | | | | | |
| DEDOOSSIS GOS PETRINGO COPERM 23-6ep-21 Y OFTENTION 0.178 Ye | | | | | | | | | |
| DEDOG0317 05.31 ADDR | | | | | | | | | |
| DEDO003110 DES PAPAGACY (VALUE) | | | | | | 0.164 | | | |
| DEDODG1313 GOSE CAMAVION W | D10D003I10 | 6528 PAPAGAYO(REVISION) | CO-PERM | 23-Sep-21 Y | DETENTION | 0.12 | No | | |
| DIODOGNIST GOS PICARDIA CO-PERM 15-feb-2 Y CO-PENTION 0.147 Yes | | | | | | | | | |
| DIDDOODS122 SOS PICARDIA CO-PERM 23-feb.21 DETENTION 0.140 No | | | | | FREE | 0.116 | | | |
| DIDOCOSIST G.S.S PICARDIA CO-PERM | | | | | | | | | |
| DIODOGOSIS 623 PICARDIA CO-PERM 23-Mar-2 Y DETENTION 0.138 Yes | | | | | | | | | |
| DIDDOOSSIS SOED PAPAGANO CO-PERM 26-OC-21 Y DETENTION 0.243 Yes | | | | | | | | | |
| DIODOSSII GEO PAPAGACO CO-PERM 23-Mar-22 DETENTION 0.229 FALSE DIODOSSII GEO CURRIVO PLACE (WITH CASTIA) CO-PERM 23-Mar-22 PIRE 0.156 FALSE DIODOSSI GEO PAPAGACO (POCL) CO-PERM 16-Jun-22 PIRE 0.156 FALSE DIODOSSI GEO PAPAGACO (POCL) CO-PERM 16-Jun-22 PIRE 0.156 FALSE DIODOSSI GEO PAPAGACO (POCL) CO-PERM 13-Mar-22 PIRE 0.156 FALSE DIODOSSI GEO PAPAGACO (POCL) CO-PERM 13-Mar-22 PIRE CO-PERM 13-Mar-22 PIRE DIODOSSI GEO PAPAGACO (POCL) CO-PERM 13-Mar-22 PIRE CO-PERM | | | | | | | | | |
| DIODODOSA11 GEST SCHEWOY PLACE (WITH CASTA) CO-PERM 16-Jun-22 Y REE 0.156 FALSE DIODODOSA2 GEST PAPACATO CO-PERM 16-Jun-22 Y DETENTION 0.28 FALSE DIODOSOSA3 GEST PAPACATO CO-PERM 26-Jun-22 Y DETENTION 0.28 FALSE DIODOSOSA3 GEST PAPACATO CO-PERM 38-Jun-22 Y DETENTION 0.128 FALSE DIODOSOSA3 GEST PAPACATO CO-PERM 38-Jun-22 Y DETENTION 0.128 FALSE DIODOSOSA3 GEST PAPACATO CO-PERM 31-Jun-22 Y DETENTION 0.132 FALSE DIODOSOSA5 GEST PAPACATO CO-PERM 31-Jun-22 Y DETENTION 0.132 FALSE DIODOSOSA5 GEST PAPACATO CO-PERM 31-Jun-22 Y DETENTION CO-PERM C | | | | | | | | | |
| DIDDOD0318 6512 PAPAGAYO (POOL) CO-PERM 18-49-22 Y DETERNITION O.28 FALSE DIDDOD0318 CSSS SULFTO ROAD NW CO-PERM 13-44-22 Y DETERNITION O.192 FALSE DIDDOD0318 CSSS SULFTO ROAD NW CO-PERM 13-14-12 Y DETERNITION O.192 FALSE DIDDOD0318 CSSS SULFTO ROAD NW CO-PERM 13-34-32 Y DETERNITION O.192 FALSE DIDDOD0318 CSSS ZEMMICK CO-PERM 08-34-22 Y Free 0.108 FALSE DIDDOD0318 CSSZ REMMICK CO-PERM 08-34-32 Y Free 0.108 FALSE DIDDOD0318 CSSZ REMMICK CO-PERM 08-34-32 Y DETERNITION O.112 Yes DIDDOD0318 CSSZ REMMICK CO-PERM 08-34-32 Y DETERNITION O.15 Yes DIDDO0318 CSSZ REMMICK CO-PERM 09-34-32 Y DETERNITION O.15 Yes DIDDO0318 CSSZ REMMICK CO-PERM 09-34-32 Y DETERNITION O.15 Yes DIDDO0318 CSSZ REMMICK CO-PERM 09-34-32 Y DETERNITION O.15 Yes DIDDO0318 CSSZ REMMICK CO-PERM 09-34-32 Y DETERNITION O.16 FALSE DIDDO03038 CSSZ REMMICK CO-PERM 08-34-32 Y DETERNITION O.16 FALSE DIDDO03038 CSSZ REMMICK CO-PERM 08-34-32 Y DETERNITION O.19 FALSE DIDDO03038 CSSZ REMMICK CO-PERM 08-34-32 Y DETERNITION O.19 FALSE DIDDO03038 CSSZ REMMICK CO-PERM 09-34-32 Y DETERNITION O.19 FALSE DIDDO03038 CSSZ REMMICK CO-PERM 09-34-32 Y DETERNITION O.11 Yes DIDDO03038 CSSZ REMMICK CO-PERM 09-34-32 Y DETERNITION O.11 Yes DIDDO03038 CSSZ REMMICK CO-PERM 09-34-32 Y DETERNITION O.11 Yes DIDDO03038 CSSZ REMMICK CO-PERM 09-34-32 Y DETERNITION O.11 Yes DIDDO03038 CSSZ REMMICK CO-PERM 09-34-32 Y DETERNITION O.11 Yes DIDDO03038 CSSZ REMMICK CO-PERM 09-34-32 Y DETERNITION O.11 Yes DIDDO03038 CSSZ REMMICK CO-PERM 09-34-32 Y DETERNITION O.12 Yes DIDDO03038 CSSZ REMMICK CO-PERM 09-34-32 Y DETERNITION O.12 Yes DIDDO03038 CSSZ REMMICK CSSZ REMMICK CO-PERM 09-34-32 Y DETERNITION O.12 Yes DIDDO03038 CSSZ REMMICK CSSZ REMMICK | | | | | | | | | |
| DEDODOSHES GEZE SULFID ROAD NW | D10D003J2 | 6616 PAPAGAYO | CO-PERM | 16-Jun-22 Y | FREE | 0.156 | FALSE | | |
| DIDDODOSIKS GEOP PARAGAYO CO PERM 13-Nov-21 DETENTION 0.192 FALSE DIDDODOSIANS DOR CO-PERM 13-Nov-21 DETENTION 0.128 FALSE DIDDODOSIM1 G532 EMMINICK CO-PERM 08-Nov-22 Free 0.108 FALSE DIDDODOSIM1 G532 EMMINICK CO-PERM 30-Nov-22 Free 0.108 FALSE DIDDODOSIM1 G532 EMMINICK CO-PERM 30-Nov-22 Free 0.108 FALSE DIDDODOSIM1 G535 EMMINICK CO-PERM 14-Nov-21 DETENTION 0.112 Yes DIDDODOSIM1 G535 EMMINICK CO-PERM CO | | | | | | | | | |
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| DODOODMING SOOD KIMMICK | | | | | | | | | |
| DADDOD03M27 6527 PATO RD NW | | | | | - | | | | |
| DIDDODSMAY 6517 PATO | | | | | | | | | |
| DIDDOD3NA6 6608 KIMMICK | D10D003M32 | 6547 PATO | CO-PERM | 22-Apr-22 Y | DETENTION | 0.161 | FALSE | | |
| DIDDODSN24 SOD GAUGA FRIA CO-PERM 30-Aug-21 Y DETENTION 0.12 Yes DIDDODSN27 SOD CANONICTO DE (REVISION) CO-PERM CO | | | | | | | | | |
| DIDDODOBANS SODI CANNOLTO DRI (REVISION) CO-PERM O7-Jun-22 Y DETENTION D.118 FALSE DIDDODOBANZ SODI CANNOLTO CO-PERM GS-OC-12 Y DETENTION D.124 FALSE DIDDODOBANZ SIMS RESIDENCE 6508 PICARDIA CO-PERM ID-Aug-21 N DETENTION D.14 Yes DIDDODOBANZ SIMS RESIDENCE 6508 PICARDIA CO-PERM ID-Aug-21 N DETENTION D.18 Yes DIDDODOBANZ SIMS RESIDENCE 6508 PICARDIA CO-PERM ID-Aug-21 N DETENTION D.138 Yes DIDDODOBANZ SIMS RESIDENCE 6508 PICARDIA CO-PERM ID-Aug-21 FREE D.109 FALSE DIDDODOBANZ SODI CARDIN (REVISIONS) CO-PERM ID-Aug-22 Y PEEE D.109 FALSE DIDDODOBANZ SODI CARDIN (REVISIONS) CO-PERM DETENTION D.126 Yes DIDDODOBANZ SODI CARDIN CARDIN CO-PERM DA-Feb-22 Y DETENTION D.201 Yes DIDDODOBANZ SODI CAMINO ALDERTE CO-PERM IB-Feb-22 N DETENTION D.17 Yes DIDDODOBANZ SODI CAMINO ALDERTE CO-PERM IB-Feb-22 N DETENTION D.17 Yes DIDDODOBANZ SODI CAMINO ALDERTE CO-PERM IB-Feb-22 N DETENTION D.17 Yes DIDDODOBANZ SODI CAMINO ALDERTE CO-PERM D.18 Yes DIDDODOBAN SODI CAMINO ALDERTE | | | | | - | | | | |
| D1000038102 B009 CANONICTO | | | | | | | | | |
| DIDDOD3972 SIMN RESIDENCE 6508 PICARDIA CO-PERM 10-Aug-21 V DETENTION 0.138 Yes DIDDOD3934 6500 PICARDIA CO-PERM 15-Apr-22 V FREE 0.109 FALSE DIDDOD3934 6500 PICARDIA CO-PERM 15-Apr-22 V FREE 0.109 FALSE DIDDOD3011 6405 PETIRROJO (REVISIONI) CO-PERM 04-Peb-22 V DETENTION 0.126 Ves DIDDOD3012 6409 PETIRROJO (REVISIONI) CO-PERM 04-Peb-22 V DETENTION 0.101 Ves DIDDOD3015 6419 PETIRROJO (REVISIONI) CO-PERM 04-Peb-22 V DETENTION 0.101 Ves DIDDOD3016 S001 CAMIMO ALDERETE CO-PERM 18-Peb-22 N DETENTION 0.112 Ves DIDDOD3810 S001 CAMIMO ALDERETE CO-PERM-R 23-Feb-22 N Ves DIDDOD3018 S001 CAMIMO ALDERETE CO-PERM-R 02-Mar-22 V DETENTION 0.152 Ves DIDDOD3033 6608 CUERVO CO-PERM 04-Jan-22 V DETENTION 0.258 Ves DIDDOD3035 6608 CUERVO CO-PERM 04-Jan-22 V DETENTION 0.118 Ves DIDDO003810 S001 CAMIMO ALDERETE CO-PERM 04-Jan-22 V DETENTION 0.118 Ves DIDD000383 6608 CUERVO CO-PERM 04-Jan-22 V DETENTION 0.118 Ves DIDD000384 6604 RIM ROCK CO-PERM 04-Jan-22 V DETENTION 0.118 Ves DIDD000385 6608 CUERVO CO-PERM 04-Jan-22 V DETENTION 0.118 Ves DIDD000386 6604 RIM ROCK CO-PERM 08-Apr-22 V FREE 0.716 Ves DIDD000387 THE LAMP SHOP CO-PERM 08-Apr-22 V FREE 0.716 Ves DIDD000388 6608 CUERVO CO-PERM 08-Apr-22 V FREE 0.716 Ves DIDD000380 THE LAMP SHOP CO-PERM 02-Apr-22 V FREE 0.711 Ves DIDD000380 THE LAMP SHOP CO-PERM 08-Apr-22 V FREE 0.714 Ves DIDD000380 CO-PERM 08-Apr-22 V DETENTION 0.131 Ves DIDD000380 CO-PERM 08-Apr-22 V DETENTION 0.132 Ves DIDD0003 | | . , | | | - | | | | |
| D100003872 SIMS RESIDENCE 5058 PICARDIA CO-PERM 13-Aug-21 Y DETENTION 0.138 Yes D100003011 6509 PETRROIO CO-PERM 15-Apr-22 Y REE 0.109 FASE D100003011 6409 PETIRROIO (REVISIONIS) CO-PERM 14-Bi-21 Y DETENTION 0.201 Yes D100003012 6409 PETIRROIO (REVISIONIS) CO-PERM 04-Feb-22 Y DETENTION 0.201 Yes D100003013 6419 PETIRROIO CO-PERM 08-Feb-22 Y DETENTION 0.152 Yes D100003RIO S001 CAMINO ALDERTE CO-PERM 18-Feb-22 N DETENTION 0.17 Yes D100003RIO S001 CAMINO ALDERTE CO-PERM 23-Feb-22 N DETENTION 0.17 Yes D100003RIO S001 CAMINO ALDERTE CO-PERM-R 23-Feb-22 N DETENTION 0.258 Yes D100003RIO S001 CAMINO ALDERTE CO-PERM-R 02-Mar-22 Y DETENTION 0.258 Yes D100003RIO S001 CAMINO ALDERTE CO-PERM-R 03-Mar-22 Y DETENTION 0.258 Yes D100003RIO S002 CANAVIO CO-PERM 09-Dec-21 Y DETENTION 0.258 Yes D100003RIO 6608 CUERVO CO-PERM 09-Dec-21 Y DETENTION 0.118 Yes D100003RIO 6609 RIM ROCK CO-PERM 09-Dec-21 Y DETENTION 0.118 Yes D1600022 THE LAMP SHOP CO-PERM 04-Mar-22 Y REE 1.171 Yes D1600023 THE LAMP SHOP CO-PERM 22-Apr-22 Y REE 1.171 Yes D170076A 7801 TIBRON STREET NE CO-PERM 28-Apr-22 Y REE 0.741 Yes D170076A 7801 TIBRON STREET NE CO-PERM 28-Apr-22 Y REE 0.257 Yes D170077A DOCK PENCIOSURE CO-PERM 08-Apr-22 Y REE 0.257 Yes D190031 PALOMAS PEAK PH2 CO-PERM 08-Apr-22 Y RETENTION 0.181 Yes D10004 S003 KIRGENUTE CO-PERM 11-Ian-22 N RETENTION 0.181 Yes D100058 5624 RIMBERUTE CO-PERM 11-Ian-22 N RETENTION 0.181 Yes D100058 5624 RIMBERUTE CO-PERM 11-Ian-22 N RETENTION 0.162 Yes D100058 5624 RIMBERUTE CO-PERM 11-Ian-22 N DETENTION 0.164 Yes D100058 5624 RIMBERUTE CO-PERM 11-Ian-22 N DETENTION 0.165 Yes D100058 5608 RIMBERUTE CO-PERM 11-Ian-22 N DETENTI | | | | | | | | | |
| D10000394 G500 PICARDIA CO-PERM 15-Apr-22 FREE 0.109 FALSE | | | | | | | | | |
| D100003011 G405 PETIRROJO NW (REVISION) CO-PERM 14-Ju-121 | | | | | | | | | |
| DIODO03G15 | D10D003Q11 | | | 14-Jul-21 Y | | 0.126 | | | |
| DIDDOGRID RODI CAMINO ALDERTE CO-PERM 18-Feb-22 N | | | | | | | | | |
| D10003R10 | | | | | | | | | |
| D10D003R10 R001 CAMINO ALDERETE CO-PERM O2-Mar-22 V DETENTION O.258 Ves | | | | | DETENTION | 0.17 | | | |
| D10D003S3 G608 CUERVO | | | | | | | | | |
| D10003V50 6209 CANAVIO CO-PERM 09-Dec-21 V DETENTION 0.118 Ves D100018 6604 RIM ROCK CO-PERM 08-Sep-21 V Free 0.176 Yes D160002AB RAM RV CO-PERM 04-Mar-22 V FREE 1.171 Yes D160002AB RAM RV CO-PERM 02-Mar-22 V FREE 1.171 Yes D160002AB RAM RV CO-PERM 22-Apr-22 V FREE 0.741 Yes D170076A 7801 TIBRON STREET NE CO-PERM 28-Apr-22 V FREE 0.257 Yes D170077A DCK ENCLOSURE CO-PERM 14-Jan-22 V FREE 0.257 Yes D170077A DCK ENCLOSURE CO-PERM 08-Apr-22 V FREE FALSE D190031 PALOMAS PEAK PH2 CO-PERM 08-Apr-22 V DETENTION 1.5 FALSE E100046 7908 SHIPROCK CT NW REVISION#2 CO-PERM 08-Apr-22 V RETENTION 0.181 Yes E100051 6201 KEYENTA CO-PERM 27-Sep-21 V FREE 0.193 Yes E100084 6100 CASA BLANCA CO-PERM 11-May-22 N RETENTION 0.182 Yes E100085 S624 KIMBERUTE CO-PERM 11-May-22 V DETENTION 0.181 Yes E100087 S616 POPO CO-PERM 02-Sep-21 V DETENTION 0.131 Yes E100099 8035 KIBO CO-PERM 11-Jan-22 N DETENTION 0.137 FALSE E100093 6219 KEYENTA CO-PERM 11-Jan-22 N DETENTION 0.137 FALSE E100093 6219 KEYENTA CO-PERM 11-Jan-22 N DETENTION 0.137 FALSE E100093 6219 KEYENTA CO-PERM 11-Jan-22 N DETENTION 0.137 FALSE E100093 6219 KEYENTA CO-PERM 11-Jan-22 V DETENTION 0.136 Yes E100093 6219 KEYENTA CO-PERM 13-Sep-21 V DETENTION 0.136 Yes E100093 6219 KEYENTA CO-PERM 13-Sep-21 V DETENTION 0.136 Yes E100097 6514 JADE CO-PERM 04-Mar-22 V DETENTION 0.148 Yes E100097 6514 JADE CO-PERM 04-Mar-22 V DETENTION 0.148 Yes E100097 6514 JADE CO-PERM 04-Mar-22 V DETENTION 0.148 Yes E100097 6514 JADE CO-PERM 04-Mar-22 V DETENTION 0.148 Yes E100097 6514 JADE CO-PERM 04-Mar-22 V DETENTION 0.148 Yes E100098 6800 BLANKET FLOWER PLACE NE CO-PERM 04-Mar-22 V D | | | | | DETENTION | 0.258 | | | |
| D10D018 G604 RIM ROCK CO-PERM O8-Sep-21 Free O.176 Yes O16D002A8 RAM RV CO-PERM O4-Mar-22 Y FREE 1.171 Yes O16D002A8 RAM RV CO-PERM O2-Mar-22 Y FREE 1.171 Yes O16D002D THE LAMP SHOP CO-PERM 22-Apr-22 Y FREE O.741 Yes O17D076A 7801 TIBRON STREET NE CO-PERM 28-Apr-22 Y FREE O.257 Yes O17D077A DOCK ENCLOSURE CO-PERM 14-Jan-22 Y FREE FALSE D19D031 PALOMAS PEAK PH2 CO-PERM O8-Apr-22 Y DETENTION 1.5 FALSE D190031 PALOMAS PEAK PH2 CO-PERM O8-Apr-22 Y DETENTION O.181 Yes D100046 7908 SHIPROCK CT NW REVISION#2 CO-PERM O8-Apr-22 Y RETENTION O.181 Yes D100046 6201 KEYENTA CO-PERM O17-Sep-21 Y FREE O.193 Yes D100034 G201 KEYENTA CO-PERM O17-Sep-21 Y DETENTION O.182 Yes D100038 S624 KIMBERLITE CO-PERM O19-Jul-21 Y DETENTION O.182 Yes D100038 S616 POPO CO-PERM O1-9-PERM O | | | | | | | | | |
| D16D002AB RAM RV | | | | | | | | | |
| D17D076A 7901 TIBRON STREET NE | D16D002A8 | | CO-PERM | 04-Mar-22 Y | FREE | 1.171 | Yes | | |
| D17D077A DOCK ENCLOSURE CO-PERM 14-Jan-22 V FREE FALSE D19D031 PALDMAS PEAR PH2 CO-PERM 08-Apr-22 V DETENTION 1.5 FALSE E10D046 7908 SHIPROCK CT NW REVISION#2 CO-PERM 08-Apr-22 V DETENTION 0.181 Yes E10D051 6201 KEYENTA CO-PERM 27-Sep-21 V FREE 0.193 Yes E10D084 6100 CASA BLANCA CO-PERM 11-May-22 N RETENTION 0.182 Yes E10D085 5624 KIMBERUITE CO-PERM 11-May-12 N RETENTION 0.182 Yes E10D087 S616 POPO CO-PERM 02-Sep-21 V DETENTION 0.26 Yes E10D098 8035 KIBO CO-PERM 11-Jan-22 N DETENTION 0.137 FALSE E10D090 8035 KIBO CO-PERM 11-Jan-22 N DETENTION 0.137 FALSE E10D091 S608 KIMBERUITE CO-PERM 11-Jan-22 N DETENTION 0.137 FALSE E10D093 6219 KEYENTA CO-PERM 13-Sep-21 V DETENTION 0.136 Yes E10D094 8008 VICTORIA RD NW (REVISION) CO-PERM 13-Sep-21 V DETENTION 0.136 Yes E10D095 8004 EMERALD CO-PERM 04-Mar-22 V FREE 0.174 Yes E10D097 6514 JADE CO-PERM 04-Mar-22 V DETENTION 0.148 Yes E10D097 6514 JADE CO-PERM 04-Mar-22 V DETENTION 0.148 Yes E11D030 S227 APOLLO NW CO-PERM 17-Mar-22 V FREE 0.08 Yes E180005C PRESBYTERIAN HOSPICE HOUSE TEMP-CO 24-Jun-22 V FREE 0.08 Yes E180036A PRES HEALTHPLEX POOL ADDN. (REVISION) CO-PERM 02-Jul-21 V DETENTION N/A No E230036 6800 BLANKET FLOWER PLACE NE CO-PERM 14-Jan-22 V FREE 0.12 Yes E11D017A 5120 NORTHERN TRAIL CO-PERM 14-Jan-22 V RETENTION 0.226 Yes E11D017A 5120 NORTHERN TRAIL CO-PERM 14-Jan-22 V RETENTION 0.226 Yes | | | | | | | | | |
| D190031 | | | | | | 0.257 | | | |
| E100046 7008 SHIPROCK CT NW REVISION#2 CO-PERM 08-Apr-22 V RETENTION 0.181 Yes | | | | | | | | | |
| E100051 G201 KEVENTA | | | | | | | | | |
| E100084 6100 CASA BLANCA CO-PERM 11-May-22 N RETENTION 0.182 Yes E100085 5624 KIMBERLITE CO-PERM 19-Jul-21 Y DETENTION 0.31 Yes E100087 5616 POPO CO-PERM 02-Sep-21 Y DETENTION 0.26 Yes E100090 8035 KIBO CO-PERM 11-Jan-22 N DETENTION 0.137 FALSE E100091 5608 KIMBERLITE CO-PERM 12-Aug-21 Y Free 0.14 Yes E100093 6219 KEYENTA CO-PERM 13-Sep-21 Y DETENTION 0.136 Yes E100094 8008 VICTORIA RD NW (REVISION) CO-PERM 16-May-22 Y FREE 0.174 Yes E100097 6514 JADE CO-PERM 04-Mar-22 Y DETENTION 0.148 Yes E180030 5227 APOLLO NW CO-PERM 17-Mar-22 Y FREE 0.08 Yes E180036 PRESBYTERIAN HOSPICE HOUSE TEMP-CO 24-Jun-22 Y FALSE E180036A PRES HEALTHPLEX POOL ADDN. (REVISION# | | | | | | | | | |
| E100085 5624 KIMBERLITE CO-PERM 19-Jul-21 V DETENTION 0.31 Ves E100087 5616 POPO CO-PERM 02-Sep-21 V DETENTION 0.26 Ves E100090 8035 KIBO CO-PERM 11-Jan-22 N DETENTION 0.137 FALSE E100091 5608 KIMBERLITE CO-PERM 12-Aug-21 V Free 0.14 Ves E100093 6219 KEYENTA CO-PERM 13-Sep-21 V DETENTION 0.136 Ves E100094 8005 VICTORIA RD NW (REVISION) CO-PERM 13-Sep-21 V DETENTION 0.136 Ves E100095 8004 EMERALD CO-PERM 16-May-22 V FREE 0.174 Ves E100095 8004 EMERALD CO-PERM 08-Feb-22 V DETENTION 0.157 Ves E100097 6514 JADE CO-PERM 04-Mar-22 V DETENTION 0.148 Ves E110039 5227 APOLLO NW CO-PERM 04-Mar-22 V DETENTION 0.148 Ves E180005C PRESBYTERIAN HOSPICE HOUSE TEMP-CO 24-Jun-22 V FREE 0.08 Ves E180036A PRES HEALTHPLEX POOL ADDN. (REVISION) CO-PERM 17-Dec-21 V FALSE E230034 13648 APACHE PLUME (BP REVISION) CO-PERM 02-Jul-21 V DETENTION N/A NO E230036 6800 BLANKET FLOWER PLACE NE CO-PERM 14-Jan-22 V FREE 0.12 Yes F110017A 5120 NORTHERN TRAIL CO-PERM 14-Mar-22 V RETENTION 0.226 Ves F110017A 5120 NORTHERN TRAIL CO-PERM 14-Mar-22 V RETENTION 0.226 Ves F110017A 5120 NORTHERN TRAIL CO-PERM 14-Mar-22 V RETENTION 0.226 Ves F120004 4801 VALLE RIO CO-PERM 06-Jun-22 V FREE 0.17 Ves | | | | | | | | | |
| E10D087 | | | | | | | | | |
| E100091 \$608 KIMBERLITE | E10D087 | 5616 POPO | | 02-Sep-21 Y | | | Yes | | |
| E100093 6219 KEYENTA CO-PERM 13-Sep-21 Y DETENTION 0.136 Yes E100094 8008 VICTORIA RD NW (REVISION) CO-PERM 16-May-22 Y FREE 0.174 Yes E100095 8004 EMERALD CO-PERM 08-Fe-22 Y DETENTION 0.157 Yes E100097 6514 JADE CO-PERM 04-Mar-22 Y DETENTION 0.148 Yes E110030 5227 APOLLO NW CO-PERM 17-Mar-22 Y FREE 0.08 Yes E110030 F227 APOLLO NW CO-PERM 17-Mar-22 Y FREE 0.08 Yes E180005C PRESBYTERIAN HOSPICE HOUSE TEMP-CO 24-Jun-22 Y FREE 0.08 Yes E18005C PRESBYTERIAN HOSPICE HOUSE TEMP-CO 124-Jun-22 Y FREE 0.08 Yes E23003A PRES HEALTHPLEX POOL ADDN. (REVISION#2) CO-PERM 17-Dec-21 Y FALSE E23003A 13648 APACHE PLUME (BP REVISION) CO-PERM 02-Jul-21 Y DETENTION N/A NO E230036 6800 BLANKET FLOWER PLACE NE CO-PERM 14-Jan-22 Y FREE 0.12 Yes F110017A 5120 NORTHERN TRAIL CO-PERM 14-Mar-22 Y RETENTION 0.226 Yes F120004 4801 VALLE RIO CO-PERM 06-Jun-22 Y FREE 0.17 Yes | | | | | | | | | |
| E100094 8008 VICTORIA RD NW (REVISION) CO-PERM 16-May-22 Y FREE 0.174 Yes | | | | | | | | | |
| E100095 8004 EMERALD CO-PERM 08-Feb-22 Y DETENTION 0.157 Yes E100097 6514 JADE CO-PERM 04-Mar-22 Y DETENTION 0.148 Yes E110030 5227 APOLLO NW CO-PERM 17-Mar-22 Y FREE 0.08 Yes E180036C PRESBYTERIAN HOSPICE HOUSE TEMP-CO 24-Jun-22 Y FE 0.08 FALSE E180036A PRES HEALTHPLEX POOL ADDN. (REVISION#2) CO-PERM 17-Dec-21 Y DETENTION N/A No E230034 13648 APACHE PLUME (BP REVISION) CO-PERM 02-Jul-21 Y DETENTION N/A No E230036 6800 BLANKET FLOWER PLACE NE CO-PERM 14-Jan-22 Y FREE 0.12 Yes F110017A 5120 NORTHERN TRAIL CO-PERM 14-Mar-22 Y RETENTION 0.226 Yes F120004 4801 VALLE RIO CO-PERM 06-Jun-22 Y FREE 0.17 Yes | | | | | | | | | |
| E100097 6514 JADE | | | | | | | | | |
| E11D030 | | | | | | | | | |
| E18D005C PRESBYTERIAN HOSPICE HOUSE TEMP-CO 24-Jun-22 Y FALSE E18D036A PRES HEALTHPLEX POOL ADDN. (REVISION#2) CO-PERM 17-Dec-21 Y FALSE E23D034 13648 APACHE PLUME (BP REVISION) CO-PERM 02-Jul-21 Y DETENTION N/A No E23D036 6800 BLANKET FLOWER PLACE NE CO-PERM 14-Jan-22 Y FREE 0.12 Yes F11D017A 5120 NORTHERN TRAIL CO-PERM 14-Mar-22 Y RETENTION 0.226 Yes F12D004 4801 VALLE RIO CO-PERM 06-Jun-22 Y FREE 0.17 Yes | | | | | | | | | |
| E18D036A PRES HEALTHPLEX POOL ADDN. (REVISION#2) CO-PERM 17-Dec-21 Y FALSE E23D034 13648 APACHE PLUME (BP REVISION) CO-PERM 02-Jul-21 Y DETENTION N/A No E23D036 6800 BLANKET FLOWER PLACE NE CO-PERM 14-Jan-22 Y FREE 0.12 Yes F11D017A 5120 NORTHERN TRAIL CO-PERM 14-Mar-22 Y RETENTION 0.226 Yes F12D004 4801 VALLE RIO CO-PERM 06-Jun-22 Y FREE 0.17 Yes | | | | | · ALL | 0.00 | | | |
| E23D034 13648 APACHE PLUME (BP REVISION) CO-PERM 02-Jul-21 Y DETENTION N/A No E23D036 6800 BLANKET FLOWER PLACE NE CO-PERM 14-Jan-22 Y FREE 0.12 Yes F11D017A 5120 NORTHERN TRAIL CO-PERM 14-Mar-22 Y RETENTION 0.226 Yes F12D004 4801 VALLE RIO CO-PERM 06-Jun-22 Y FREE 0.17 Yes | | | | | | | | | |
| E23D034 13648 APACHE PLUME (BP REVISION) CO-PERM 02-Jul-21 Y DETENTION N/A No E23D036 6800 BLANKET FLOWER PLACE NE CO-PERM 14-Jan-22 Y FREE 0.12 Yes F11D017A 5120 NORTHERN TRAIL CO-PERM 14-Mar-22 Y RETENTION 0.226 Yes F12D004 4801 VALLE RIO CO-PERM 06-Jun-22 Y FREE 0.17 Yes | E18D036A | PRES HEALTHPLEX POOL ADDN. (REVISION#2) | CO-PERM | 17-Dec-21 Y | | | FALSE | | |
| F11D017A 5120 NORTHERN TRAIL CO-PERM 14-Mar-22 Y RETENTION 0.226 Yes F12D004 4801 VALLE RIO CO-PERM 06-Jun-22 Y FREE 0.17 Yes | E23D034 | 13648 APACHE PLUME (BP REVISION) | CO-PERM | 02-Jul-21 Y | | | No | | |
| F12D004 4801 VALLE RIO CO-PERM 06-Jun-22 Y FREE 0.17 Yes | | | | | | | | | |
| | | | | | | | | | |
| FARDORD AND AUGUSTO DEV | | | | | | | | | |
| F13D030 1320 AVENIDA CRISTO REY CO-PERM 26-Apr-22 Y RETENTION 0.048 Yes F14D077 321 SANDIA RD NW CO-PERM 15-Oct-21 Y FREE 0.545 Yes | | | | | | | | | |

| | DROJECT NAME /DEC | ADDDOVAL SOLICIT | MANDAS DEVIEW DATE ADDROVED | DISCHARCE | ACDEC IMAD | WO DOND AT CO | CO ET IMP EEE IN LIEU | AMOUNT DAID SEE IN LIEU |
|---|---|--|--|--|--|---|-----------------------|--------------------------|
| DRAINAGE FILE F16D001A | PROJECT NAME/DES MAVERIK CARLISLE/MONTGOMERY | CO-PERM | MAPA2.REVIEW DATE APPROVED 10-Dec-21 Y | DISCHARGE free | ACRES IMP 2.001 | WQ POND AT CO Yes | SQ FT IMP FEE IN LIEU | AMOUNT PAID FEE IN LIEU |
| F16D001A | MAVERIK CARLISLE/MONTGOMERY MAVERIK CARLISLE/MONTGOMERY | CO-PERIVI | 09-Jul-21 Y | | 2.001 | FALSE | | |
| FIODOOIA | IVIAVERIR CAREISEE/IVIONT GOIVIERT | CO-TEMP- | 09-Jul-21 I | | | FALSE | | |
| F16D001A | MAVERIK CARLISLE/MONTGOMERY | EXTENSION | 11-Aug-21 Y | | | FALSE | | |
| | | CO-TEMP- | | | | | | |
| F16D001A | MAVERIK CARLISLE/MONTGOMERY | EXTENSION | 20-Sep-21 Y | | | FALSE | | |
| F16D001A | MAVERIK CARLISLE/MONTGOMERY | CO-TEMP-EXT | 12-Nov-21 Y | | | FALSE | | |
| F16D011 | JATC | CO-PERM | 23-Jul-21 Y | DETENTION | 1.32 | Yes | | |
| | WUA CUSTOMER SERVICE & OPERATIONS | | | | | | | |
| F16D014C | FACILITIES | CO-PERM | 07-Oct-21 Y | RETENTION | 11.1 | Yes | | |
| F18D010 | COURTYARD APARTMENTS | CO-PERM | 23-May-22 Y | FREE | 0.14 | | | |
| F20D004A | 9616 CANDLE LN | CO-PERM | 23-Dec-21 Y | FREE | 0.031 | Yes | | |
| | LA VIDA LLENA HEALTH CARE CENTER | | | | | | | |
| F21D028 | REPOSITION - 10501 LAGRIMA DE ORO RD LA VIDA LLENA HEALTH CARE CENTER | CO-PERM | 10-Dec-21 Y | DETENTION | 10.24 | Yes | | |
| F21D020 | | CO TEMP | 27 San 21 V | DETENTION | | FALCE | | |
| F21D028 | REPOSITION - 10501 LAGRIMA DE ORO RD LA VIDA LLENA HEALTH CARE CENTER | CO-TEMP | 27-Sep-21 Y | DETENTION | | FALSE | | |
| F21D028 | REPOSITION - 10501 LAGRIMA DE ORO RD | CO-TEMP | 05-Nov-21 Y | DETENTION | | FALSE | | |
| F21D047A | BOSQUE ON EUBANK | CO-PERM | 02-Jun-22 Y | DETENTION | 0.47 | | | |
| F21D081 | GUARDIAN STORAGE | CO-PERM | 10-Dec-21 Y | FREE | 1.481 | | | |
| F21D081 | GUARDIAN STORAGE | CO-TEMP | 03-Sep-21 Y 30DAY | FREE | | FALSE | | |
| | LOT 5A AND 5B CORIANDA SUBDIVISION- 2619 | | · | | | | | |
| G13D023D | CORIANDA | CO-PERM | 22-Oct-21 Y | RETENTION | 0.237 | Yes | | |
| | | | | | | | | |
| G13D041 | CASTILLO RESIDENCE- 3305 MEADOW VIEW DR | CO-PERM | 22-Apr-22 Y | RETENTION | 0.104 | Yes | | |
| G16D095F | STORAGE BUILDING, 4100 YALE NE | CO-PERM | 21-Jan-22 Y | Free | 1.53 | | | |
| G16D095F | STORAGE BUILDING, 4100 YALE NE | CO-TEMP | 15-Nov-21 Y | | | Yes | | |
| G21D032 | MURPHY EXPRESS | CO-PERM | 23-Aug-21 Y | FREE | 0.75 | | 697 | \$5,576.00 |
| G23D016 | 13606 SUNSET CANYON | CO-PERM | 10-Dec-21 Y | FREE | 0.116 | | | |
| H09D017A8 | 8505 MESA RAIN RD NW | CO-PERM | 15-Apr-22 Y | FREE | 0.092 | | | |
| H09D017A9 | 8501 MESA RAIN | CO-PERM | 15-Apr-22 Y | Free | 0.1 | | | |
| H09D017G | DEL WEBB @ MIREHAVEN PH4 | ROFG | 16-May-22 Y | FREE | 19.6 | | | |
| H10D032 | T&M SELF STORAGE | CO-TEMP | 23-Aug-21 Y TEMP | FREE | 2.85 | | | |
| H11D072 | 2504 ALAMOGORDO | CO-PERM | 07-Oct-21 Y | FREE | 0.058 | | | |
| H12D003B | 3401 CALLEE FACIO NW | CO-PERM | 13-Jan-22 Y | RETENTION | 0.203 | | | |
| H12D003C | 3300 CALLE FACIO NW | CO-PERM | 08-Nov-21 Y | RETENTION | 0.254 | | | |
| H13D025C | SAWMILL VILLAGE-PHASE 2 | CO-PERM | 03-Dec-21 Y | FREE | 0.65 | | | |
| H13D025C | SAWMILL VILLAGE-PHASE 2 | TEMP-CO | 08-Oct-21 Y 30 DAY | FREE | | Yes | | |
| H13D113 | AVANYU RETAIL | CO-PERM | 21-Feb-22 Y | DETENTION | 3.86 | | | |
| H16D021 | PASCETTI STEEL BUILDING | CO-PERM | 31-Mar-22 Y | RETENTION | 0.161 | | | 44.004.00 |
| H19D090 | US EAGLE CREDIT UNION | CO-PERM | 23-Dec-21 Y | FREE | 0.79 | | 4657 | \$1,304.00 |
| J10D002G1 | BEK DISTRIBUTION FACILITY | CO-PERM | 23-Jul-21 Y | RETENTION | 4.983 | | | |
| J10D045 | WILSON WAREHOUSE | CO-PERM | 14-Dec-21 Y | DETENTION | 0.12 | | 23087 | £4.000.00 |
| J12D032!!!! J13D207A | MONTEREY MOTEL 2410 MOUNTAIN RD | CO-PERM CO-PERM | 22-Oct-21 Y 04-Feb-22 Y | FREE RETENTION | 0.53 | | 23067 | \$4,000.00 |
| J13D207A J13D213 | 1210 11TH ST NW | CO-PERM | 22-Oct-21 Y | FREE | 0.084 | | | |
| J14D194 | | | | FREE | 0.076 | | | |
| J14D194 | HOPE WORKS HOPE VILLAGE HOPE WORKS HOPE VILLAGE (EXT x2) | CO-TEMP CO-TEMP-EXT | 19-Jan-22 Y 23-Feb-22 Y EXT x 2 | FREE | 0.275 | Yes FALSE | | |
| J18D001C | | | 12-Nov-21 Y | FREE | 0.269 | | 11707 | \$2,028.80 |
| J18D001C | 6670 INDIAN SCHOOL RD NE 6670 INDIAN SCHOOL RD NE | CO-PERM | | FREE | 0.269 | FALSE | 11/0/ | \$2,028.80 |
| 119D001C | 0070 INDIAN SCHOOL RD NE | CO-TEMP CO-TEMP- | 08-Nov-21 Y Y 30 DAY EXT | FREE | | FALSE | | |
| J22D050 | ABQ. SCHOOL OF EXCELLENCE (REVISION)X5 | EXTENSION | 20-Jul-21 X 5 | RETENTION | 0.32 | Yes | | |
| 1220030 | ABQ. SCHOOL OF EXCELLENCE (REVISION)AS | CO-TEMP- | Y 30 DAY EXT | KETEINTION | 0.32 | 163 | | |
| J22D050 | ABQ. SCHOOL OF EXCELLENCE (REVISION)X6 | EXTENSION | 26-Aug-21 X 6 | RETENTION | | Yes | | |
| 3220030 | ABQ. SCHOOL OF EXCELLENCE (NEVISION)AU | CO-TEMP- | Y 30 DAY EXT | KETEIVITOIV | | 163 | | |
| J22D050 | ABQ. SCHOOL OF EXCELLENCE (REVISION)X7 | EXTENSION | 22-Sep-21 X 6 | RETENTION | | Yes | | |
| 3220030 | ABQ. SCHOOL OF EXCELLENCE (NEVISION)A | CO-TEMP- | Y 30 DAY EXT | KETEIVITOIV | | 163 | | |
| J22D050 | ABQ. SCHOOL OF EXCELLENCE (REVISION)X8 | EXTENSION | 19-Oct-21 X 8 | RETENTION | | Yes | | |
| 3223030 | And serious of excessives (mexistory) | CO-TEMP- | 13 Oct 21 A O | NETER TOTAL | | | | |
| J22D050 | ABQ. SCHOOL OF EXCELLENCE (REVISION)X9 | EXTENSION | 03-Jan-22 Y | RETENTION | | Yes | | |
| 3223030 | And serious of excessives (herisloty) | CO-TEMP- | 03 3411 22 1 | NETER TOTAL | | | | |
| J22D050 | ABQ. SCHOOL OF EXCELLENCE (REVISION)X10 | EXTENSION | 09-Feb-22 Y | RETENTION | | Yes | | |
| J23D029 | 1542 WELLS | CO-PERM | 04-Mar-22 Y | FREE | 0.127 | | | |
| J23D030 | 13709 INDIAN SCHOOL | CO-PERM | 17-Mar-22 Y | FREE | 0.108 | | | |
| K08D004 | MISTER CAR WASH | CO-PERM | 13-Aug-21 Y | FREE | 1.1 | Yes | | |
| K08D004 | MISTER CAR WASH | ROFG | 24-Mar-22 Y | FREE | | Yes | | |
| K10D023I | LOT 22 MERIDIAN BUSINESS PARK | CO-PERM | 06-May-22 Y | DETENTION | 1.846 | | | |
| K10D023I | LOT 22 MERIDIAN BUSINESS PARK | CO-TEMP | 05-Apr-22 Y | DETENTION | | Yes | | |
| K10D060 | 7200 BLUEWATER | CO-PERM | 10-Jun-22 Y | DETENTION | 10.33 | | | |
| K11D068B | 6433 DENNISION SW | CO-PERM | 26-Apr-22 Y | Free | 0.8 | | | |
| K13D034I | ASIA EXHIBIT AT COA BIOPARK | CO-PERM | 10-Dec-21 Y | FREE | 1.84 | Yes | | |
| | !!!CENTRAL AND BROADWAY HOTEL & | | | | | | | |
| K14D017 | PARKING STRUCTURE | CO-PERM | 13-Aug-21 Y | FREE | 0.77 | | 1179 | \$9,432.00 |
| K15D005G | PRES HOSPITAL PARKING GARAGE | TEMP-CO | 15-Oct-21 Y | | 3.9 | | | \$27,280.0 |
| K15D005G | PRES HOSPITAL PARKING GARAGE (EXT#1) | TEMP-CO | 16-Nov-21 Y | | | FALSE | | |
| K15D104 | MLK TOWNHOMES | CO-PERM | 30-Mar-22 N EMAIL | FREE | 0.15 | | | |
| K17D064 | ROUTE 66 VET. CLINIC - 3601 CENTAL AVE NE | CO-PERM | 22-Oct-21 Y | FREE | 0.327 | | 14241 | \$2,472.00 |
| K17D073 | APARTMENT URBAN LIVING @ NOB HILL | CO-PERM | 13-Aug-21 Y | DETENTION | 11.79 | | 1175 | \$9,400.00 |
| | 314 ARIZONA | CO-PERM | 12-May-22 Y | DETENTION | 0.311 | | | |
| K18D110 | | | | | | | | |
| K18D110 K19D005 | INTERNATIONAL DISTRICT LIBRARY | CO-PERM | 03-Dec-21 Y | FREE | 3.58 | | | |
| K18D110 | INTERNATIONAL DISTRICT LIBRARY 132 ALCAZAR (NO PAD CERT REQUIRED) | CO-PERM CO-PERM | | FREE FREE | 3.58 0.08 | | | |
| K18D110 K19D005 K19D154 | INTERNATIONAL DISTRICT LIBRARY 132 ALCAZAR (NO PAD CERT REQUIRED) (BUENO FOODS)!!! FREEZER EXPANSION PHASE | CO-PERM | 03-Dec-21 Y 28-Mar-22 Y | FREE | 0.08 | Yes | | |
| K18D110 K19D005 | INTERNATIONAL DISTRICT LIBRARY 132 ALCAZAR (NO PAD CERT REQUIRED) (BUENO FOODS)!!! FREEZER EXPANSION PHASE 4, EL ENCANTO | | 03-Dec-21 Y | | | Yes | | |
| K18D110 K19D005 K19D154 L14D001A | INTERNATIONAL DISTRICT LIBRARY 132 ALCAZAR (NO PAD CERT REQUIRED) (BUENO FOODS)!!! FREEZER EXPANSION PHASE 4, EL ENCANTO LUMINARIA SENIOR COMMUNITY (old hydro# | CO-PERM CO-PERM | 03-Dec-21 Y 28-Mar-22 Y 23-May-22 Y | DETENTION | 3.3 | Yes Yes | | |
| K18D110 K19D005 K19D154 L14D001A | INTERNATIONAL DISTRICT LIBRARY 132 ALCAZAR (NO PAD CERT REQUIRED) (BUENO FOODS)!!! FREEZER EXPANSION PHASE 4, EL ENCANTO LUMINARIA SENIOR COMMUNITY (old hydro# L1210023) | CO-PERM CO-PERM | 03-Dec-21 Y 28-Mar-22 Y 23-May-22 Y 21-Mar-22 Y | DETENTION FREE | 0.08 3.3 1.4 | Yes Yes Yes | | |
| K18D110 K19D005 K19D154 L14D001A L21D045C L22D055 | INTERNATIONAL DISTRICT LIBRARY 132 ALCAZAR (NO PAD CERT REQUIRED) (BUENO FOODS)!!! FREEZER EXPANSION PHASE 4, EL ENCANTO LUMINARIA SENIOR COMMUNITY (old hydro# L21D023) SINGING ARROW COMMUNITY CENTER | CO-PERM CO-PERM CO-PERM CO-PERM | 03-Dec-21 Y 28-Mar-22 Y 23-May-22 Y 21-Mar-22 Y 22-Oct-21 Y | FREE Pree | 0.08 3.3 1.4 1.01 | Yes Yes Yes | | |
| K18D110 K19D005 K19D154 L14D001A | INTERNATIONAL DISTRICT LIBRARY 132 ALCAZAR (NO PAD CERT REQUIRED) (BUENO FOODS)!!! FREEZER EXPANSION PHASE 4, EL ENCANTO LUMINARIA SENIOR COMMUNITY (old hydro# L21D023) SINGING ARROW COMMUNITY CENTER KENNAN PROPERTIES, 12900 CENTRAL AVE SE | CO-PERM CO-PERM | 03-Dec-21 Y 28-Mar-22 Y 23-May-22 Y 21-Mar-22 Y | DETENTION FREE | 0.08 3.3 1.4 | Yes Yes Yes | | |
| K18D110 K19D005 K19D154 L14D001A L21D045C L22D055 L22D061 | INTERNATIONAL DISTRICT LIBRARY 132 ALCAZAR (NO PAD CERT REQUIRED) (BUENO FOODS)!!! FREEZER EXPANSION PHASE 4, EL ENCANTO LUMINARIA SENIOR COMMUNITY (old hydro# L21D023) SINGING ARROW COMMUNITY CENTER KENNAN PROPERTIES, 12900 CENTRAL AVE SE KENNAN PROPERTIES, 12900 CENTRAL AVE SE | CO-PERM CO-PERM CO-PERM CO-PERM CO-PERM | 03-Dec-21 Y 28-Mar-22 Y 23-May-22 Y 21-Mar-22 Y 22-Oct-21 Y 18-Oct-21 Y | FREE Free DETENTION | 0.08 3.3 1.4 1.01 | Yes Yes Yes Yes Yes Yes | | |
| K18D110 K19D005 K19D154 L14D001A L21D045C L22D055 | INTERNATIONAL DISTRICT LIBRARY 132 ALCAZAR (NO PAD CERT REQUIRED) (BUENO FOODS)!!! FREEZER EXPANSION PHASE 4, EL ENCANTO LUMINARIA SENIOR COMMUNITY (old hydro# L21D023) SINGING ARROW COMMUNITY CENTER KENNAN PROPERTIES, 12900 CENTRAL AVE SE KENNAN PROPERTIES, 12900 CENTRAL AVE SE (REVISION) | CO-PERM CO-PERM CO-PERM CO-PERM | 03-Dec-21 Y 28-Mar-22 Y 23-May-22 Y 21-Mar-22 Y 22-Oct-21 Y | FREE Pree | 0.08 3.3 1.4 1.01 | Yes Yes Yes | | |
| K18D110 K19D005 K19D154 L14D001A L21D045C L22D055 L22D061 | INTERNATIONAL DISTRICT LIBRARY 132 ALCAZAR (NO PAD CERT REQUIRED) (BUENO FOODS)!!! FREEZER EXPANSION PHASE 4, EL ENCANTO LUMINARIA SENIOR COMMUNITY (old hydro# L21023) SINGING ARROW COMMUNITY CENTER KENNAN PROPERTIES, 12900 CENTRAL AVE SE (ERUSION) KENNAN PROPERTIES, 12900 CENTRAL AVE SE (REVISION) | CO-PERM CO-PERM CO-PERM CO-PERM CO-PERM CO-PERM | 03-Dec-21 Y 28-Mar-22 Y 23-May-22 Y 21-Mar-22 Y 22-Oct-21 Y 18-Oct-21 Y 09-Sep-21 Y | FREE DETENTION FREE Free DETENTION DETENTION | 0.08 3.3 1.4 1.01 | Yes Yes Yes Yes Yes Yes | | |
| K18D110 K19D005 K19D154 L14D001A L21D045C L22D055 L22D061 L22D061 | INTERNATIONAL DISTRICT LIBRARY 132 ALCAZAR (NO PAD CERT REQUIRED) (BUENO FOODS) III FREEZER EXPANSION PHASE 4, EL ENCANTO LUMINARIA SENIOR COMMUNITY (old hydro# L21D023) SINGING ARROW COMMUNITY CENTER KENNAN PROPERTIES, 12900 CENTRAL AVE SE (REVISION) KENNAN PROPERTIES, 12900 CENTRAL AVE SE (REVISION) KENNAN PROPERTIES, 12900 CENTRAL AVE SE (REVISION) | CO-PERM CO-PERM CO-PERM CO-PERM CO-PERM CO-PERM CO-TEMP CO-TEMP | 03-Dec-21 Y 28-Mar-22 Y 23-May-22 Y 21-Mar-22 Y 22-Oct-21 Y 18-Oct-21 Y 09-Sep-21 Y 08-Oct-21 Y 30 DAY | FREE DETENTION FREE Free DETENTION DETENTION | 0.08 3.3 1.4 1.01 0.57 | Yes Yes Yes Yes Yes Yes Yes | | |
| K18D110 K190005 K19D154 L14D001A L21D045C L22D055 L22D061 L22D061 L22D061 L22D061 L23D014F | INTERNATIONAL DISTRICT LIBRARY 132 ALCAZAR (NO PAD CERT REQUIRED) (BUENO FOODS)!!! FREEZER EXPANSION PHASE 4, EL ENCANTO LUMINARIA SENIOR COMMUNITY (old hydro# L21D023) SINGING ARROW COMMUNITY CENTER KENNAN PROPERTIES, 12900 CENTRAL AVE SE (REVISION) KENNAN PROPERTIES, 12900 CENTRAL AVE SE (REVISION) 13704 COVERED WAGON | CO-PERM CO-PERM CO-PERM CO-PERM CO-PERM CO-TEMP CO-TEMP-EXT CO-PERM | 03-Dec-21 Y 28-Mar-22 Y 23-May-22 Y 21-Mar-22 Y 22-Oct-21 Y 18-Oct-21 Y 09-Sep-21 Y 08-Oct-21 Y 30 DAY 28-Mar-22 Y | FREE DETENTION FREE Free DETENTION DETENTION DETENTION FREE | 0.08 3.3 1.4 1.01 0.57 | Yes Yes Yes Yes Yes Yes Yes You | | |
| K18D110 K190005 K190154 L140001A L210045C L220055 L220061 L220061 L220061 L230014F L230036 | INTERNATIONAL DISTRICT LIBRARY 132 ALCAZAR (NO PAD CERT REQUIRED) (BUENO FOODS)!!! FREEZER EXPANSION PHASE 4, EL ENCANTO LUMINARIA SENIOR COMMUNITY (old hydro# L210023) SINGING ARROW COMMUNITY CENTER KENNAN PROPERTIES, 12900 CENTRAL AVE SE (REUNISON) KENNAN PROPERTIES, 12900 CENTRAL AVE SE (REUSION) KENNAN PROPERTIES, 12900 CENTRAL AVE SE (REUSION) 13704 COVERED WAGON 213 WELLS DR NE (REVISION) | CO-PERM CO-PERM CO-PERM CO-PERM CO-PERM CO-TEMP CO-TEMP CO-TEMP CO-PERM CO-PERM | 03-Dec-21 Y 28-Mar-22 Y 23-May-22 Y 21-Mar-22 Y 22-Oct-21 Y 18-Oct-21 Y 09-Sep-21 Y 08-Oct-21 Y 30 DAY 28-Mar-22 Y 13-Jan-22 Y | FREE DETENTION FREE Free DETENTION DETENTION DETENTION DETENTION FREE FREE | 0.08 3.3 1.4 1.01 0.57 | Yes Yes Yes Yes Yes Yes Yes No | | |
| K18D110 K19D105 K19D154 L14D001A L21D045C L22D055 L22D061 L22D061 L22D061 L23D014F L23D036 M09D019D | INTERNATIONAL DISTRICT LIBRARY 132 ALCAZAR (NO PAD CERT REQUIRED) (BUENO FOODS) III FREEZER EXPANSION PHASE 4, EL ENCANTO LUMINARIA SENIOR COMMUNITY (old hydro# L21D023) SINGING ARROW COMMUNITY CENTER KENNAN PROPERTIES, 12900 CENTRAL AVE SE (RENSION) KENNAN PROPERTIES, 12900 CENTRAL AVE SE (REVISION) 13704 COVERED WAGON 213 WELLS DR NE (REVISION) 9800 DEL RAY | CO-PERM CO-PERM CO-PERM CO-PERM CO-PERM CO-TEMP CO-TEMP-EXT CO-PERM CO-PERM CO-PERM | 03-Dec-21 Y 28-Mar-22 Y 23-May-22 Y 21-Mar-22 Y 22-Oct-21 Y 18-Oct-21 Y 09-Sep-21 Y 08-Oct-21 Y 30 DAY 28-Mar-22 Y 13-Jan-22 Y 09-Jul-21 Y | FREE DETENTION FREE Free DETENTION DETENTION DETENTION FREE FREE FREE | 0.08 3.3 1.4 1.01 0.57 0.057 | Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes | | |
| K180110 K190005 K190105 K190154 L14D001A L21D045C L22D065 L22D061 L22D061 L22D061 L22D061 L23D014F L23D036 M09D019D M09D030 | INTERNATIONAL DISTRICT LIBRARY 132 ALCAZAR (NO PAD CERT REQUIRED) (BUENO FOODS)!!! FREEZER EXPANSION PHASE 4, EL ENCANTO LUMINARIA SENIOR COMMUNITY (old hydro# L21D023) SINGING ARROW COMMUNITY CENTER KENNAN PROPERTIES, 12900 CENTRAL AVE SE (REVISION) KENNAN PROPERTIES, 12900 CENTRAL AVE SE (REVISION) 13704 COVERED WAGON 213 WELLS DR NE (REVISION) 9800 DEL RAY WESTGATE COMMUNITY CENTER | CO-PERM CO-PERM CO-PERM CO-PERM CO-PERM CO-TEMP CO-PERM CO-PERM CO-PERM CO-PERM CO-PERM CO-PERM | 03-Dec-21 Y 28-Mar-22 Y 23-May-22 Y 21-Mar-22 Y 22-Oct-21 Y 18-Oct-21 Y 09-Sep-21 Y 08-Oct-21 Y 30 DAY 28-Mar-22 Y 13-Jan-22 Y 09-Jul-21 Y 08-Nov-21 Y | FREE DETENTION FREE Free DETENTION DETENTION DETENTION FREE FREE FREE DETENTION | 0.08 3.3 1.4 1.01 0.57 0.05 0.083 0.165 4.51 | Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes | | |
| K18D110 K19D005 K19D154 L14D001A L21D045C L22D055 L22D061 L22D061 L22D061 L23D014F L23D014F L23D036 M09D030 M09D031A | INTERNATIONAL DISTRICT LIBRARY 132 ALCAZAR (NO PAD CERT REQUIRED) (BUENO FOODS)!!! FREEZER EXPANSION PHASE 4, EL ENCANTO LUMINARIA SENIOR COMMUNITY (old hydro# L21D023) SINGING ARROW COMMUNITY CENTER KENNAN PROPERTIES, 12900 CENTRAL AVE SE (RENNAN PROPERTIES, 12900 CENTRAL AVE SE (REVISION) KENNAN PROPERTIES, 12900 CENTRAL AVE SE (REVISION) 13704 COVERED WAGON 13704 COVERED WAGON 1213 WELLS DR NE (REVISION) 9800 DEL RAY WESTGATE COMMUNITY CENTER SOLARE CHARTER SCHOOL PHASE 2 | CO-PERM CO-PERM CO-PERM CO-PERM CO-PERM CO-TEMP CO-TEMP-EXT CO-PERM CO-PERM CO-PERM CO-PERM CO-PERM CO-PERM CO-PERM CO-PERM CO-PERM CO-PERM | 03-Dec-21 Y 28-Mar-22 Y 23-May-22 Y 21-Mar-22 Y 22-Oct-21 Y 18-Oct-21 Y 09-Sep-21 Y 08-Oct-21 Y 30 DAY 28-Mar-22 Y 13-Jan-22 Y 09-Jul-21 I 08-Nov-21 Y 12-Aug-21 Y | FREE DETENTION FREE Free DETENTION DETENTION DETENTION FREE FREE FREE FREE FREE FREE FREE FREE FREE FREE FREE FREE FREE FREE FREE | 0.08 3.3 1.4 1.01 0.57 0.05 0.083 0.165 4.51 0.49 | Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes | 1000 | 69.410.00 |
| K18D110 K19D005 K19D005 K19D104 L21D045C L22D065 L22D061 L22D061 L22D061 L23D014F L23D036 M09D030 M09D031A M10D020 | INTERNATIONAL DISTRICT LIBRARY 132 ALCAZAR (NO PAD CERT REQUIRED) (BUENO FOODS) III FREEZER EXPANSION PHASE 4, EL ENCANTO LUMINARIA SENIOR COMMUNITY (old hydro# L21D023) SINGING ARROW COMMUNITY CENTER KENNAN PROPERTIES, 12900 CENTRAL AVE SE (KENNAN PROPERTIES, 12900 CENTRAL AVE SE (REVISION) KENNAN PROPERTIES, 12900 CENTRAL AVE SE (REVISION) 13704 COVERED WAGON 213 WELLS DR NE (REVISION) 9800 DEL RAY WESTGATE COMMUNITY CENTER SOLARE CHARTER SCHOOL PHASE 2 KIDZ ACADEMY SAGE RO SW | CO-PERM CO-PERM CO-PERM CO-PERM CO-PERM CO-TEMP CO-PERM CO-PERM CO-PERM CO-PERM CO-PERM CO-PERM CO-PERM CO-PERM CO-PERM CO-PERM CO-PERM CO-PERM CO-PERM CO-PERM CO-PERM CO-PERM CO-PERM CO-PERM | 03-Dec-21 Y 28-Mar-22 Y 23-May-22 Y 21-Mar-22 Y 22-Oct-21 Y 18-Oct-21 Y 09-Sep-21 Y 08-Oct-21 Y 30 DAY 28-Mar-22 Y 13-Jan-22 Y 09-Jul-21 Y 08-Nov-21 Y 12-Aug-21 Y 14-Mar-22 Y | FREE DETENTION FREE Free DETENTION DETENTION DETENTION FREE FREE FREE DETENTION FREE FREE FREE FREE FREE FREE | 0.08 3.3 1.4 1.01 0.57 0.05 0.083 0.165 4.51 0.499 0.9 | Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes | 1056 | |
| K180110 K190005 K190005 K190104 L140001A L210045C L220061 L220061 L220061 L220061 L230014F L2300136 M0900190 M0900310 M100020 M100020 | INTERNATIONAL DISTRICT LIBRARY 132 ALCAZAR (NO PAD CERT REQUIRED) (BUENO FOODS)!!! FREEZER EXPANSION PHASE 4, EL ENCANTO LUMINARIA SENIOR COMMUNITY (old hydro# L210023) SINGING ARROW COMMUNITY CENTER KENNAN PROPERTIES, 12900 CENTRAL AVE SE (RENISION) KENNAN PROPERTIES, 12900 CENTRAL AVE SE (REVISION) 13704 COVERED WAGON 213 WELLS DR NE (REVISION) 9800 DEL RAY WESTGATE COMMUNITY CENTER SOLABE CHARTER SCHOOL PHASE 2 KIDZ ACADEMY SAGE RD SW HUMAN BEAN COFFEE SHOP | CO-PERM CO-PERM CO-PERM CO-PERM CO-PERM CO-PERM CO-PERM CO-PERM CO-PERM CO-PERM CO-PERM CO-PERM CO-PERM CO-PERM CO-PERM CO-PERM CO-PERM CO-PERM CO-PERM | 03-Dec-21 Y 28-Mar-22 Y 23-May-22 Y 21-Mar-22 Y 22-Oct-21 Y 18-Oct-21 Y 09-Sep-21 Y 08-Oct-21 Y 30 DAY 28-Mar-22 Y 13-lan-22 Y 09-Jul-21 Y 08-Nov-21 Y 12-Aug-21 Y 14-Mar-22 Y 24-Jun-22 Y | FREE DETENTION FREE Free DETENTION DETENTION DETENTION FREE FREE FREE DETENTION FREE FREE FREE FREE FREE FREE FREE FREE FREE | 0.08 3.3 1.4 1.01 0.57 0.05 0.083 0.165 4.51 0.49 | Yes | 1056 648 | |
| K18D110 K19D005 K19D154 L14D001A L21D045C L22D055 L22D061 L22D061 L22D061 L22D061 L23D014F L23D014F L23D036 M09D030 M09D031A M10D0021 M10D0021 | INTERNATIONAL DISTRICT LIBRARY 132 ALCAZAR (NO PAD CERT REQUIRED) (BUENO FOODS)!!! FREEZER EXPANSION PHASE 4, EL ENCANTO LUMINARIA SENIOR COMMUNITY (old hydro# L21D023) SINGING ARROW COMMUNITY CENTER KENNAN PROPERTIES, 12900 CENTRAL AVE SE (KENNAN PROPERTIES, 12900 CENTRAL AVE SE (REVISION) KENNAN PROPERTIES, 12900 CENTRAL AVE SE (REVISION) 13704 COVERED WAGON 13704 COVERED WAGON 1213 WELLS DR NE (REVISION) 9800 DEL RAY WESTGATE COMMUNITY CENTER SOLARE CHARTER SCHOOL PHASE 2 KIDZ ACADEMY SAGE RD SW HUMAN BEAN COFFEE SHOP HUMAN BEAN COFFEE SHOP | CO-PERM CO-PERM CO-PERM CO-PERM CO-TEMP CO-TEMP CO-PERM CO-PERM CO-PERM CO-PERM CO-PERM CO-PERM CO-PERM CO-PERM CO-PERM CO-PERM CO-PERM CO-TEMP CO-PERM CO-TEMP CO-PERM CO-PERM CO-PERM CO-PERM CO-PERM CO-PERM CO-PERM | 03-Dec-21 Y 28-Mar-22 Y 23-May-22 Y 21-Mar-22 Y 22-Oct-21 Y 18-Oct-21 Y 09-Sep-21 Y 08-Oct-21 Y 30 DAY 28-Mar-22 Y 13-Jan-22 Y 09-Jul-21 Y 08-Nov-21 Y 12-Aug-21 Y 14-Mar-22 Y 24-Jun-22 Y 08-Feb-22 Y | FREE DETENTION FREE Free DETENTION DETENTION DETENTION DETENTION FREE FREE FREE FREE FREE FREE FREE FREE FREE FREE FREE FREE | 0.08 3.3 1.4 1.01 0.57 0.05 0.083 0.165 4.51 0.49 0.9 | Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes | | |
| K18D110 K19D005 K19D105 L14D001A L21D045C L22D061 L22D061 L22D061 L22D061 L23D036 M09D030 M09D030 M10D021 M10D021 M16D044 | INTERNATIONAL DISTRICT LIBRARY 132 ALCAZAR (NO PAD CERT REQUIRED) (BUENO FOODS) III FREEZER EXPANSION PHASE 4, EL ENCANTO LUMINARIA SENIOR COMMUNITY (old hydro# L21D023) SINGING ARROW COMMUNITY CENTER KENNAN PROPERTIES, 12900 CENTRAL AVE SE (KENNAN PROPERTIES, 12900 CENTRAL AVE SE (REVISION) KENNAN PROPERTIES, 12900 CENTRAL AVE SE (REVISION) 13704 COVERED WAGON 213 WELLS DR NE (REVISION) 9800 DEL RAY WESTGATE COMMUNITY CENTER SOLARE CHARTER SCHOOL PHASE 2 KIDZ ACADEMY SAGE RD SW HUMAN BEAN COFFEE SHOP HUMAN BEAN COFFEE SHOP CRESTLINE BAYLOR DRIVET PROPERTY | CO-PERM CO-PERM CO-PERM CO-PERM CO-PERM CO-TEMP CO-PERM | 03-Dec-21 Y 28-Mar-22 Y 23-May-22 Y 21-Mar-22 Y 22-Oct-21 Y 18-Oct-21 Y 09-Sep-21 Y 08-Oct-21 Y 30 DAY 28-Mar-22 Y 13-Jan-22 Y 09-Jul-21 Y 08-Nov-21 Y 12-Aug-21 Y 14-Mar-22 Y 24-Jun-22 Y 08-Feb-22 Y 30-Aug-21 Y | FREE DETENTION FREE Free DETENTION DETENTION DETENTION FREE | 0.08 3.3 1.4 1.01 0.57 0.05 0.083 0.165 4.51 0.49 0.96 0.96 | Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes | | \$8,448.00 \$5,184.00 |
| K18D110 K19D005 K19D005 K19D104 L14D001A L21D045C L22D051 L22D061 L22D061 L22D061 L23D014F L23D014F L23D036 M09D019D M09D0300 M09D0301A M10D020 M10D021 M10D021 | INTERNATIONAL DISTRICT LIBRARY 132 ALCAZAR (NO PAD CERT REQUIRED) (BUENO FOODS)!!! FREEZER EXPANSION PHASE 4, EL ENCANTO LUMINARIA SENIOR COMMUNITY (old hydro# L210023) SINGING ARROW COMMUNITY CENTER KENNAN PROPERTIES, 12900 CENTRAL AVE SE (REUSION) KENNAN PROPERTIES, 12900 CENTRAL AVE SE (REUSION) KENNAN PROPERTIES, 12900 CENTRAL AVE SE (REUSION) 13704 COVERED WAGON 213 WELLS DR NE (REUSION) 9800 DEL RAY WESTGATE COMMUNITY CENTER SOLARE CHARTER SCHOOL PHASE 2 KIDZ ACADEMY SAGE RD SW HUMAN BEAN COFFEE SHOP HUMAN BEAN COFFEE SHOP HUMAN BEAN COFFEE SHOP CRESTLINE BAYLOR DRIVE PROPERTY 10800 GIBSON (RAYTHEON)(REVISION) | CO-PERM CO-PERM CO-PERM CO-PERM CO-TEMP CO-TEMP CO-PERM CO-PERM CO-PERM CO-PERM CO-PERM CO-PERM CO-PERM CO-PERM CO-PERM CO-PERM CO-PERM CO-TEMP CO-PERM CO-TEMP CO-PERM CO-PERM CO-PERM CO-PERM CO-PERM CO-PERM CO-PERM | 03-Dec-21 Y 28-Mar-22 Y 23-May-22 Y 21-Mar-22 Y 22-Oct-21 Y 18-Oct-21 Y 09-Sep-21 Y 08-Oct-21 Y 30 DAY 28-Mar-22 Y 13-Jan-22 Y 09-Jul-21 Y 08-Nov-21 Y 12-Aug-21 Y 14-Mar-22 Y 24-Jun-22 Y 08-Feb-22 Y | FREE DETENTION FREE Free DETENTION DETENTION DETENTION DETENTION FREE FREE FREE FREE FREE FREE FREE FREE FREE FREE FREE FREE | 0.08 3.3 1.4 1.01 0.57 0.05 0.083 0.165 4.51 0.49 0.9 | Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes | | |
| K18D110 K19D005 K19D105 L14D001A L21D045C L22D051 L22D061 L22D061 L22D061 L23D014F L23D036 M09D030 M09D030 M10D020 M10D020 M10D021 M16D044 M21D007A1 | INTERNATIONAL DISTRICT LIBRARY 132 ALCAZAR (NO PAD CERT REQUIRED) (BUENO FOODS)!!! FREEZER EXPANSION PHASE 4, EL ENCANTO LUMINARIA SENIOR COMMUNITY (old hydro# L21D023) SINGING ARROW COMMUNITY CENTER KENNAN PROPERTIES, 12900 CENTRAL AVE SE (KENNAN PROPERTIES, 12900 CENTRAL AVE SE (REVISION) KENNAN PROPERTIES, 12900 CENTRAL AVE SE (REVISION) 13704 COVERED WAGON 13704 COVERED WAGON 1213 WELLS DA NE (REVISION) 9800 DEL RAY WESTGATE COMMUNITY CENTER SOLABE CHARTER SCHOOL PHASE 2 KIDZ ACADEMY SAGE RD SW HUMAN BEAN COFFEE SHOP HUMAN BEAN COFFEE SHOP HUMAN BEAN COFFEE SHOP CRESTLINE BAYLOR DRIVE PROPERTY 10500 GBANADO CT SE (NO PAD CERT REQUIRED) 906 GANADO CT SE (NO PAD CERT REQUIRED) | CO-PERM CO-PERM CO-PERM CO-PERM CO-PERM CO-TEMP CO-PERM | 03-Dec-21 Y 28-Mar-22 Y 23-May-22 Y 21-Mar-22 Y 22-Oct-21 Y 18-Oct-21 Y 09-Sep-21 Y 08-Oct-21 Y 30 DAY 28-Mar-22 Y 13-Jan-22 Y 09-Jul-21 Y 08-Nov-21 Y 12-Aug-21 Y 14-Mar-22 Y 24-Jun-22 Y 08-Reb-22 Y 30-Aug-21 Y | FREE DETENTION FREE Free DETENTION DETENTION DETENTION PREE FREE 0.08 3.3 1.4 1.01 0.57 0.055 0.083 0.165 4.515 0.49 0.9 0.96 0.349 0.47 | Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes | | |
| K18D110 K19D005 K19D105 L14D001A L21D045C L22D061 L22D061 L22D061 L22D061 L23D036 M09D030 M09D030 M10D021 M10D021 M16D044 | INTERNATIONAL DISTRICT LIBRARY 132 ALCAZAR (NO PAD CERT REQUIRED) (BUENO FOODS)!!! FREEZER EXPANSION PHASE 4, EL ENCANTO LUMINARIA SENIOR COMMUNITY (old hydro# L210023) SINGING ARROW COMMUNITY CENTER KENNAN PROPERTIES, 12900 CENTRAL AVE SE (REUSION) KENNAN PROPERTIES, 12900 CENTRAL AVE SE (REUSION) KENNAN PROPERTIES, 12900 CENTRAL AVE SE (REUSION) 13704 COVERED WAGON 213 WELLS DR NE (REUSION) 9800 DEL RAY WESTGATE COMMUNITY CENTER SOLARE CHARTER SCHOOL PHASE 2 KIDZ ACADEMY SAGE RD SW HUMAN BEAN COFFEE SHOP HUMAN BEAN COFFEE SHOP HUMAN BEAN COFFEE SHOP CRESTLINE BAYLOR DRIVE PROPERTY 10800 GIBSON (RAYTHEON)(REVISION) | CO-PERM CO-PERM CO-PERM CO-PERM CO-PERM CO-TEMP CO-PERM | 03-Dec-21 Y 28-Mar-22 Y 23-May-22 Y 21-Mar-22 Y 22-Oct-21 Y 18-Oct-21 Y 09-Sep-21 Y 08-Oct-21 Y 30 DAY 28-Mar-22 Y 13-Jan-22 Y 09-Jul-21 Y 08-Nov-21 Y 12-Aug-21 Y 14-Mar-22 Y 24-Jun-22 Y 08-Feb-22 Y 30-Aug-21 Y | FREE DETENTION FREE Free DETENTION DETENTION DETENTION FREE | 0.08 3.3 1.4 1.01 0.57 0.05 0.083 0.165 4.51 0.49 0.96 0.96 | Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes | | |

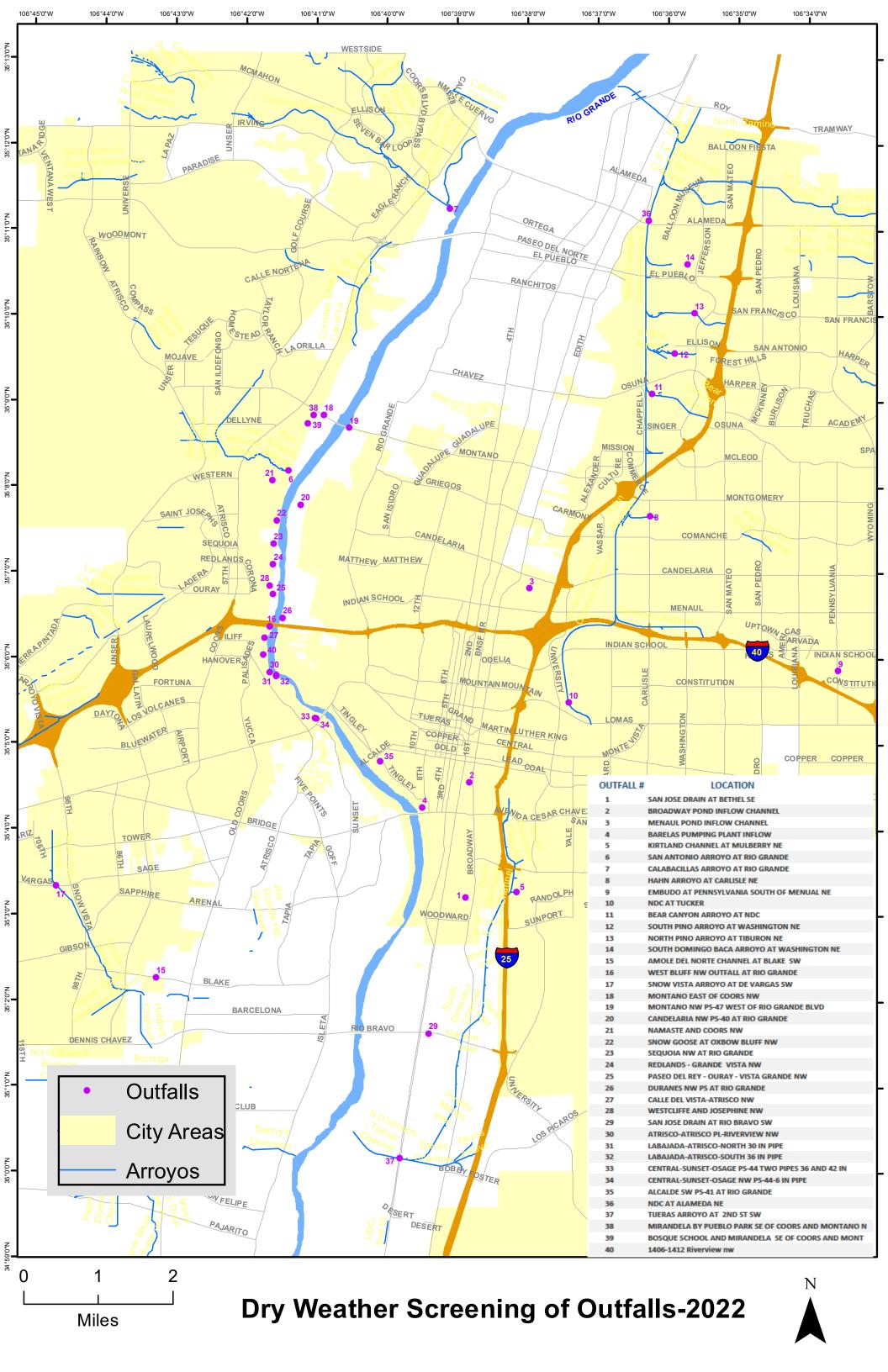
| DRAINAGE FILE | PROJECT NAME/DES | APPROVAL SOUGHT | MAPA2.REVIEW DATE | APPROVED | DISCHARGE | ACRES IMP | WQ POND AT CO | SQ FT IMP FEE IN LIEU | AMOUNT PAID FEE IN LIEU |
|-----------------|------------------------------------|-----------------|-------------------|----------|-----------|----------------|---------------|-----------------------|-------------------------|
| Q16DA5000A | KAIROS POWER | CO-PERM | 09-Jul-21 | Υ | Free | 1.74 | Yes | | |
| | NEW MEXICO UNITED LOCKER ROOM(CURB | | | | | | | | |
| R15D002A | AND GUTTER) | CO-PERM | 18-Mar-22 | Υ | Free | 0.63 | Yes | | |
| | NEW MEXICO UNITED LOCKER ROOM(CURB | | | | | | | | |
| R15D002A | AND GUTTER) | CO-TEMP | 15-Mar-22 | Υ | Free | | Yes | | |
| | | | | | | | | | |
| | | | | | | | | Total Imp Area Pmt In | Total Pmt In Lieu |
| | | | | | | Total Imp Area | | Lieu | (Dollars) |
| Count Overall | 189 | | | | | | | (Acres) | (Dollars) |
| Yes | 145 | | | | | 143.009 | | 1.83 | \$ 78,824.08 |
| No | 13 | | | | | | | | |
| Count Pmnt Lieu | 10 | | | | | | | | |

Attachment 4 Dry Weather Screening Results

Dry Weather Screening of Outfalls 2022

DRY WEATHER OUTFALLS SCREENING 2022 TABLE OF CONTENTS

| OUTFALL# | LOCATIO | QUAD | GRID | PAGE # |
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| 13 | NORTH PINO ARROYO AT TIBURON NE | NE | D-17 | 13 |
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| 19 | MONTANO NW PS-47 WEST OF RIO GRANDE BLVD | NW | F-12 | 19 |
| 20 | CANDELARIA NW PS-40 AT RIO GRANDE | NW | G-12 | 20 |
| 21 | NAMASTE AND COORS NW | NW | F-11 | 21 |
| 22 | SNOW GOOSE AT OXBOW BLUFF NW | NW | G-11 | 22 |
| 23 | SEQUOIA NW AT RIO GRANDE | NW | G-11 | 23 |
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| 33 | CENTRAL-SUNSET-OSAGE PS-44 TWO PIPES 36 AND 42 IN | NW | J-12 | 33 |
| 34 | CENTRAL-SUNSET-OSAGE NW PS-44-6 IN PIPE | NW | J-12 | 34 |
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| | BOSQUE SCHOOL AND MIRANDELA SE OF COORS AND MONT | NW | E-12 | 39 |
| 39 | BUSQUE SCHOOL AND WIRANDELA SE OF COOKS AND WIGHT | 1444 | L-12 | 33 |



| LOCATION | SAN JOSE DRAIN AT BETHEL SE | | | | | |
|-----------------------------|-----------------------------|--------------|------------|------------------|--------------------|--|
| OUTFALL_NO 1 | QUAD SE | GRID | M-14 | SAMPLED | | |
| DATE_INSP 2/28/202 | 2 TIME 12: | 13 | | Inspected by | MM | |
| WEATHER SUNNY | flow NO FLOW | | | FLOW_GPM | 0 | |
| APPEARANCE na | GROSS POLL | UTANT na | | | | |
| Source of Flow na | | | | | | |
| link X:\MD\SHARE\MD | -Storm\7 NPDES\311 SW | Q_Complaints | \2022\2 - | DW Screening\1 | -M14-SE-San Jose D | |
| AIR_TEMP_F | 51 | Lab | | | | |
| WATER_TEMP_F | na | Lab_R | Report | | | |
| рН | | E_ | coli_Colif | orm_mpn/100ml | | |
| CONDUCTIVITY_Umos/cm | | | | Ammonia_mg | /I | |
| BOD_mg/I | | | | Nitrite_NO2_mg | :/ | |
| COD_mg/I | | | I | Nitrate_NO3_mg | / | |
| TSS_mg/I | | | TKN_ | Tot_Kjeld_N_mg | :/ | |
| TDS_mg/I | | | Phospho | orus_total_mg/l_ | Р | |
| N-Hexane Extractable-(Oil_G | rease)_mg/l | | Hardn | ess_mg/l_CaCO3 | 3 | |
| Floride_mg/l | | | | Chlorine_mg/l | | |



| LOCATION | TION BROADWAY POND INFLOW CHANNEL | | | | | |
|----------------------|-----------------------------------|------------------|----------------|-----------------------|-------------------|--|
| OUTFALL_NO | 2 QUAD SE | | GRID K-14 | SAMPLED | | |
| DATE_INSP 3/ | 16/2022 TIME | 10:00 | | Inspected by | ИM | |
| WEATHER CLC | DUDY | YES | | FLOW_GPM | 1 | |
| APPEARANCE clear | | GROSS POLLUTAN | NT No odor, no | observable particulat | es, no sheen | |
| Source of Flow | Irrigation, carwash | n, Water Hydrent | flushing, | | | |
| link X:\MD\SHA | RE\MD-Storm\7_NPD | ES\311 SWQ Co | mplaints\2022 | \2 - DW Screening\2-K | 14-SE-Hazeldine-j | |
| AIR_TEMP_F | 48 | | Lab | HALL ENVIRONME | NTAL | |
| WATER_TEMP_F | 41 | | Lab_Report | | 2203901 | |
| рН | 8.0 | | E_coli_C | oliform_mpn/100ml | 1553.1 | |
| CONDUCTIVITY_Umos | 760 760 | | | Ammonia_mg/l | <1 | |
| BOD_mg/l | 20.0 | | | Nitrite_NO2_mg/l | <0.5 | |
| COD_mg/l | 42 | | | Nitrate_NO3_mg/l | 0.82 | |
| TSS_mg/I | <4 | | TI | KN_Tot_Kjeld_N_mg/l | <1 | |
| TDS_mg/I | 464 | | Phos | phorus_total_mg/l_P | 0.26 | |
| N-Hexane Extractable | -(Oil_Grease)_mg/l | <9.12 | На | rdness_mg/l_CaCO3 | 170 | |
| Floride_mg/l | 0.97 | | | Chlorine_mg/l | <0.05 | |



| LOCATION | MENAUL PO | ND INFLOW | CHANNEL |
|-----------------------------|---------------------------|-------------------|-------------------------------------|
| OUTFALL_NO 3 | QUAD NE | GRID H-15 | SAMPLED |
| DATE_INSP 3/28/202 | 10:10 | | Inspected by MM |
| WEATHER PARTLY CL | OUDY flow NO FLOW | | FLOW_GPM 0 |
| APPEARANCE na | GROSS POLLUTA | ANT na | |
| Source of Flow na | | | |
| link X:\MD\SHARE\MD | O-Storm\7 NPDES\311 SWQ (| Complaints\2022\2 | ? - DW Screening\3-H15-NE Menaul Po |
| AIR_TEMP_F | 59 | Lab | |
| WATER_TEMP_F | na | Lab_Report | |
| рН | | E_coli_Col | iform_mpn/100ml |
| CONDUCTIVITY_Umos/cm | | | Ammonia_mg/I |
| BOD_mg/l | | | Nitrite_NO2_mg/l |
| COD_mg/I | | | Nitrate_NO3_mg/l |
| TSS_mg/I | | TKI | N_Tot_Kjeld_N_mg/l |
| TDS_mg/I | | Phosp | horus_total_mg/l_P |
| N-Hexane Extractable-(Oil_G | Grease)_mg/l | Hard | dness_mg/I_CaCO3 |
| Floride_mg/l | | | Chlorine_mg/l |



| LOCATION BARELAS PUMPING PLANT INFLOW | | | | | | |
|---------------------------------------|--|----------------|------------|--------------------|----------|--|
| OUTFALL_NO 4 | QUAD SW | GRID | L-13 | SAMPLED | ✓ | |
| DATE_INSP 4/29/20 | TIME | 12:10 | | Inspected by | MM-LM | |
| WEATHER SUNNY | flow YES | | | FLOW_GPM | 20 | |
| APPEARANCE clear | GROSS | POLLUTANT No o | dor, no pa | rticulates, no she | en | |
| Source of Flow | roundwater | | | | | |
| link X:\MD\SHARE\M | link X:\MD\SHARE\MD-Storm\7 NPDES\311 SWQ Complaints\2022\2 - DW Screening\4-L13-SW-Barelas PS | | | | | |
| AIR_TEMP_F | 74 | Lab | | HALL ENVIRONM | IENTAL | |
| WATER_TEMP_F | 59 | Lab_R | Report | | 22004D38 | |
| рН | 8.23 | E_ | coli_Colif | orm_mpn/100ml | >2419.6 | |
| CONDUCTIVITY_Umos/cm | 790 | | | Ammonia_mg/ | <1.0 | |
| BOD_mg/l | 6.1 | | | Nitrite_NO2_mg, | <0.5 | |
| COD_mg/l | 26.3 | | | Nitrate_NO3_mg, | <0.5 | |
| TSS_mg/I | <4 | | TKN_ | _Tot_Kjeld_N_mg, | 1.1 | |
| TDS_mg/I | 534 | | Phospho | orus_total_mg/l_I | 0.21 | |
| N-Hexane Extractable-(Oil_ | Grease)_mg/l | 9.35 | Hardr | ness_mg/l_CaCO3 | 270 | |
| Floride_mg/l | <0.5 | | | Chlorine_mg/l | <0.05 | |



| LOCATION | KIRTLAND CHAI | NNEL AT MUL | BERRY NE | |
|-----------------------------|--------------------------|--------------------|-------------------|------------------|
| OUTFALL_NO 5 | QUAD SE | GRID M-15 | SAMPLED | |
| DATE_INSP 3/28/2022 | 2 TIME 11:05 | | Inspected by MI | M |
| WEATHER PARTLY CLO | OUDY flow NO FLOW | | FLOW_GPM | 0 |
| APPEARANCE na | GROSS POLLUTA | NT na | | |
| Source of Flow na | | | | |
| link X:\MD\SHARE\MD- | -Storm\7_NPDES\311_SWQ_C | omplaints\2022\2 - | DW Screening\5-M1 | 15-SE Kirtland C |
| AIR_TEMP_F | 67 | Lab | | |
| WATER_TEMP_F | na | Lab_Report | | |
| рН | | E_coli_Colifc | orm_mpn/100ml | |
| CONDUCTIVITY_Umos/cm | | | Ammonia_mg/l | |
| BOD_mg/I | | | Nitrite_NO2_mg/l | |
| COD_mg/I | | 1 | Nitrate_NO3_mg/l | |
| TSS_mg/I | | TKN_ | Tot_Kjeld_N_mg/l | |
| TDS_mg/I | | Phospho | rus_total_mg/l_P | |
| N-Hexane Extractable-(Oil_G | rease)_mg/I | Hardn | ess_mg/I_CaCO3 | |
| Floride_mg/l | | | Chlorine_mg/l | |



| LOCATION | SAN ANTONIO | ARROYO | AT RIO GRANDE | |
|-----------------------------|------------------------|---------------|------------------------|------------------|
| OUTFALL_NO 6 | QUAD NW | GRID | -12 SAMPLED | |
| DATE_INSP 3/29/202 | 2 TIME 9:00 | | Inspected by | MM |
| WEATHER SUNNY | flow NO FLOW | | FLOW_GPM | 0 |
| APPEARANCE na | GROSS POLLU | JTANT na | | |
| Source of Flow na | | | | |
| link X:\MD\SHARE\MD | -Storm\7_NPDES\311_SWQ | Complaints\20 | 022\2 - DW Screening\6 | -F12-NW-SanAnton |
| AIR_TEMP_F | 52 | Lab | | |
| WATER_TEMP_F | na | Lab_Rep | ort | |
| рН | | E_col | i_Coliform_mpn/100ml | |
| CONDUCTIVITY_Umos/cm | | | Ammonia_mg, | /I |
| BOD_mg/l | | | Nitrite_NO2_mg | /I |
| COD_mg/l | | | Nitrate_NO3_mg | /I |
| TSS_mg/I | | | TKN_Tot_Kjeld_N_mg | /I |
| TDS_mg/I | | Р | hosphorus_total_mg/l_ | Р |
| N-Hexane Extractable-(Oil_G | rease)_mg/l | | Hardness_mg/I_CaCO3 | |
| Floride_mg/l | | | Chlorine_mg/l | |



| LOCATION | CALABACILLAS | ARROYO | AT RIO | GRANDE | |
|-----------------------------|------------------------|--------------|-------------|--------------|--------------------|
| OUTFALL_NO 7 | QUAD NW | GRID | C-14 | SAMPLED | |
| DATE_INSP 3/7/202 | 2 TIME 7:47 | | In | spected by | MM |
| WEATHER PARTLY CL | OUDY flow NO FLOW | | F | FLOW_GPM | 0 |
| APPEARANCE na | GROSS POLLU | TANT na | | | |
| Source of Flow na | | | | | |
| link X:\MD\SHARE\MD | -Storm\7 NPDES\311 SWQ | Complaints\2 | 022\2 - DW | Screening\7 | -C14-NW Calabacill |
| AIR_TEMP_F | 26 | Lab | | | |
| WATER_TEMP_F | na | Lab_Rep | oort | | |
| рН | | E_co | li_Coliform | _mpn/100ml | |
| CONDUCTIVITY_Umos/cm | | | A | .mmonia_mg, | /I |
| BOD_mg/l | | | Nitr | rite_NO2_mg | /I |
| COD_mg/I | | | Nitra | ate_NO3_mg | /I |
| TSS_mg/I | | | TKN_Tot | _Kjeld_N_mg | /I |
| TDS_mg/I | | F | Phosphorus | _total_mg/l_ | Р |
| N-Hexane Extractable-(Oil_G | rease)_mg/l | | Hardness | _mg/l_CaCO3 | |
| Floride_mg/l | | | С | hlorine_mg/l | |



| LOCATION | HAHN | ARROYO AT | CARLISLE NE | |
|-----------------------------|---------------------|----------------|----------------------------|------------------|
| OUTFALL_NO 8 | QUAD NE | GRID | G-16 SAMPLED | |
| DATE_INSP 3/24/202 | 2 TIME | 10:52 | Inspected by | ИM |
| WEATHER SUNNY | flow NO FL | OW | FLOW_GPM | 0 |
| APPEARANCE na | GROSS F | POLLUTANT na | | |
| Source of Flow na | <u> </u> | | | |
| link X:\MD\SHARE\MD | -Storm\7_NPDES\311_ | SWQ_Complaints | \2022\2 - DW Screening\8-G | i16-NE-Hahn arro |
| AIR_TEMP_F | 50 | Lab | | |
| WATER_TEMP_F | na | Lab_R | eport | |
| рН | | E_0 | coli_Coliform_mpn/100ml | |
| CONDUCTIVITY_Umos/cm | | | Ammonia_mg/l | |
| BOD_mg/l | | | Nitrite_NO2_mg/I | |
| COD_mg/I | | | Nitrate_NO3_mg/l | |
| TSS_mg/I | | | TKN_Tot_Kjeld_N_mg/l | |
| TDS_mg/I | | | Phosphorus_total_mg/l_P | |
| N-Hexane Extractable-(Oil_G | rease)_mg/l | | Hardness_mg/l_CaCO3 | |
| Floride_mg/l | | | Chlorine_mg/l | |



| LOCATION | MBUDO AT PEN | NSYLVANIA | SOUTH | OF MENU | AL NE |
|-----------------------------|---------------------|----------------|-------------|-----------------|-------------------|
| OUTFALL_NO 9 | QUAD NE | GRID | J-19 | SAMPLED | |
| DATE_INSP 3/3/202 | 2 TIME | 9:54 | | Inspected by | MM |
| WEATHER SUNNY | flow NO FLO | OW | | FLOW_GPM | 0 |
| APPEARANCE na | GROSS P | OLLUTANT na | | | |
| Source of Flow na | | | | | |
| link X:\MD\SHARE\MD | -Storm\7_NPDES\311_ | SWQ_Complaints | \2022\2 - I | DW Screening\9 | -J19-NE Embudo Ar |
| AIR_TEMP_F | 48 | Lab | | | |
| WATER_TEMP_F | na | Lab_R | eport | | |
| рН | | E_0 | coli_Colifo | rm_mpn/100ml | |
| CONDUCTIVITY_Umos/cm | | | | Ammonia_mg | /I |
| BOD_mg/l | | | | Nitrite_NO2_mg | :/1 |
| COD_mg/I | | | Ν | litrate_NO3_mg | /1 |
| TSS_mg/I | | | TKN_1 | Tot_Kjeld_N_mg | / |
| TDS_mg/I | | | Phospho | rus_total_mg/l_ | P |
| N-Hexane Extractable-(Oil_G | rease)_mg/l | | Hardne | ess_mg/I_CaCO3 | 3 |
| Floride_mg/l | | | | Chlorine_mg/l | |



| LOCATION | | NDC AT TU | ICKER | |
|-----------------------------|--------------------|----------------|------------------------------|-------------------|
| OUTFALL_NO 10 | QUAD NE | GRID | J-16 SAMPLED | |
| DATE_INSP 3/25/202 | 2 TIME | 3:00 | Inspected by | MM |
| WEATHER SUNNY | flow NO F | LOW | FLOW_GPM | 0 |
| APPEARANCE na | GROSS | POLLUTANT na | | |
| Source of Flow na | | | | |
| link X:\MD\SHARE\MD | -Storm\7_NPDES\311 | SWQ Complaints | \$\2022\2 - DW Screening\10- | -J15-NE-NDC at Tu |
| AIR_TEMP_F | 73 | Lab | | |
| WATER_TEMP_F | na | Lab_F | Report | |
| рН | | E_ | _coli_Coliform_mpn/100ml | |
| CONDUCTIVITY_Umos/cm | | | Ammonia_mg/l | |
| BOD_mg/l | | | Nitrite_NO2_mg/l | |
| COD_mg/l | | | Nitrate_NO3_mg/l | |
| TSS_mg/I | | | TKN_Tot_Kjeld_N_mg/l | |
| TDS_mg/I | | | Phosphorus_total_mg/l_P | |
| N-Hexane Extractable-(Oil_G | rease)_mg/l | | Hardness_mg/I_CaCO3 | |
| Floride_mg/l | | | Chlorine_mg/l | |



| LOCATION | BEAR (| CANYON ARF | ROYO AT NDC | |
|-----------------------------|--------------------|----------------|---------------------------|-------------------|
| OUTFALL_NO 11 | QUAD NE | GRID | G-16 SAMPLED | |
| DATE_INSP 3/18/202 | 2 TIME | 9:56 | Inspected by | MM |
| WEATHER SUNNY | flow NO FI | LOW | FLOW_GPM | 0 |
| APPEARANCE na | GROSS | POLLUTANT na | | |
| Source of Flow na | | | | |
| link X:\MD\SHARE\MD | -Storm\7 NPDES\311 | SWQ_Complaints | \2022\2 - DW Screening\11 | -G16-NE-Bear arro |
| AIR_TEMP_F | 40 | Lab | | |
| WATER_TEMP_F | na | Lab_R | Report | |
| рН | | E_ | coli_Coliform_mpn/100ml | |
| CONDUCTIVITY_Umos/cm | | | Ammonia_mg/l | |
| BOD_mg/l | | | Nitrite_NO2_mg/ | |
| COD_mg/I | | | Nitrate_NO3_mg/ | |
| TSS_mg/I | | | TKN_Tot_Kjeld_N_mg/ | |
| TDS_mg/I | | | Phosphorus_total_mg/l_P | |
| N-Hexane Extractable-(Oil_G | rease)_mg/l | | Hardness_mg/l_CaCO3 | |
| Floride_mg/l | | | Chlorine_mg/l | |



| LOCATION | SOUTH PING | O ARROYO AT | TWASHINGTON NE | |
|-----------------------------|--------------------|----------------|---------------------------|-------------------|
| OUTFALL_NO 12 | QUAD NE | GRID | D-17 SAMPLED | |
| DATE_INSP 3/18/202 | 2 TIME | 9:48 | Inspected by | MM |
| WEATHER SUNNY | flow NO F | LOW | FLOW_GPM | 0 |
| APPEARANCE na | GROSS | POLLUTANT na | | |
| Source of Flow na | | | | |
| link X:\MD\SHARE\MD | -Storm\7_NPDES\311 | SWQ Complaints | \2022\2 - DW Screening\12 | -E17-NE-South Pin |
| AIR_TEMP_F | 39 | Lab | | |
| WATER_TEMP_F | na | Lab_R | eport | |
| рН | | E_ | coli_Coliform_mpn/100ml | |
| CONDUCTIVITY_Umos/cm | | | Ammonia_mg/ | |
| BOD_mg/l | | | Nitrite_NO2_mg/ | |
| COD_mg/l | | | Nitrate_NO3_mg/ | |
| TSS_mg/I | | | TKN_Tot_Kjeld_N_mg/ | |
| TDS_mg/I | | | Phosphorus_total_mg/l_P | |
| N-Hexane Extractable-(Oil_G | rease)_mg/l | | Hardness_mg/I_CaCO3 | |
| Floride_mg/l | | | Chlorine_mg/l | |



| LOCATION | NORTH P | INO ARROYO | AT TIBURON NE | |
|-----------------------------|---------------------|----------------|--------------------------|--------------------|
| OUTFALL_NO 13 | QUAD NE | GRID | D-17 SAMPLED | |
| DATE_INSP 3/18/202 | 2 TIME | 9:23 | Inspected by | MM |
| WEATHER SUNNY | flow NO F | LOW | FLOW_GPM | 0 |
| APPEARANCE na | GROSS | POLLUTANT na | | |
| Source of Flow na | - | | | |
| link X:\MD\SHARE\MD | o-Storm\7_NPDES\311 | SWQ_Complaints | \2022\2 - DW Screening\1 | 3-D17-NE-north pin |
| AIR_TEMP_F | 36 | Lab | | |
| WATER_TEMP_F | na | Lab_R | eport | |
| рН | | E_0 | coli_Coliform_mpn/100ml | |
| CONDUCTIVITY_Umos/cm | | | Ammonia_mg | /I |
| BOD_mg/l | | | Nitrite_NO2_mg | /I |
| COD_mg/I | | | Nitrate_NO3_mg | /I |
| TSS_mg/I | | | TKN_Tot_Kjeld_N_mg | /I |
| TDS_mg/I | | | Phosphorus_total_mg/l_ | Р |
| N-Hexane Extractable-(Oil_G | rease)_mg/l | | Hardness_mg/I_CaCO3 | 3 |
| Floride_mg/l | | | Chlorine_mg/l | |



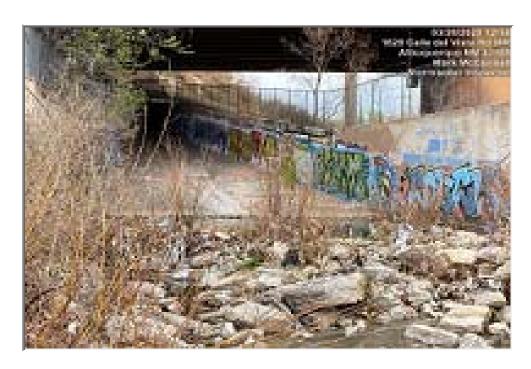
| LOCATION SO | UTH DOMINGO | BACA ARRO | OYO AT | WASHING | TON NE |
|-----------------------------|--------------------|----------------|--------------|-----------------|-------------------|
| OUTFALL_NO 14 | QUAD NE | GRID | C-17 | SAMPLED | |
| DATE_INSP 3/18/202 | 2 TIME | 9:32 | | Inspected by | MM |
| WEATHER SUNNY | flow NO F | LOW | | FLOW_GPM | 0 |
| APPEARANCE na | GROSS | POLLUTANT na | | | |
| Source of Flow na | | | | | |
| link X:\MD\SHARE\MD | -Storm\7_NPDES\311 | SWQ Complaints | s\2022\2 - | DW Screening\1 | 4-C17-NE-South Do |
| AIR_TEMP_F | 37 | Lab | | | |
| WATER_TEMP_F | na | Lab_F | Report | | |
| рН | | E_ | _coli_Colifo | orm_mpn/100ml | |
| CONDUCTIVITY_Umos/cm | | | | Ammonia_mg | /I |
| BOD_mg/l | | | | Nitrite_NO2_mg | z/I |
| COD_mg/l | | | 1 | Nitrate_NO3_mg | <u>;/</u> I |
| TSS_mg/I | | | TKN_ | Tot_Kjeld_N_mg | <u>z</u> /l |
| TDS_mg/I | | | Phospho | rus_total_mg/l_ | P |
| N-Hexane Extractable-(Oil_G | rease)_mg/l | | Hardn | ess_mg/I_CaCO3 | 3 |
| Floride_mg/l | | | | Chlorine_mg/l | |



| LOCATION | AMOLE DEL NO | ORTE CHAI | NNEL A | T BLAKE SV | N |
|-----------------------------|-----------------------|---------------|-------------|-----------------|------------------|
| OUTFALL_NO 15 | QUAD SW | GRID | N-10 | SAMPLED | |
| DATE_INSP 3/17/202 | 2 TIME 3:3 | 37 | | Inspected by | MM |
| WEATHER CLOUDY | flow NO FLOW | 1 | | FLOW_GPM | 0 |
| APPEARANCE na | GROSS POL | LUTANT na | | | |
| Source of Flow na | | | | | |
| link X:\MD\SHARE\MD | -Storm\7 NPDES\311 SW | /Q Complaints | \2022\2 - | DW Screening\1 | 5-L10-SW-Amole d |
| AIR_TEMP_F | 57 | Lab | | | |
| WATER_TEMP_F | na | Lab_R | Report | | |
| рН | | E_ | coli_Colifc | orm_mpn/100ml | |
| CONDUCTIVITY_Umos/cm | | | | Ammonia_mg | /I |
| BOD_mg/l | | | | Nitrite_NO2_mg | ;/I |
| COD_mg/l | | | 1 | Nitrate_NO3_mg | ;/1 |
| TSS_mg/I | | | TKN_ | Tot_Kjeld_N_mg | :/ |
| TDS_mg/I | | | Phospho | rus_total_mg/l_ | P |
| N-Hexane Extractable-(Oil_G | rease)_mg/l | | Hardn | ess_mg/I_CaCO3 | 3 |
| Floride_mg/l | | | | Chlorine_mg/l | |



| LOCATION | WEST BLUFF | NW OUTFA | LL AT R | IO GRAND | E |
|-----------------------------|----------------------|---------------|-------------|-----------------|------------------|
| OUTFALL_NO 16 | QUAD NW | GRID | H-11 | SAMPLED | |
| DATE_INSP 3/28/202 | 2 TIME 1 | 12:32 | | Inspected by | MM |
| WEATHER PARTLY CL | OUDY flow NO FLO | W | | FLOW_GPM | 0 |
| APPEARANCE na | GROSS PC | OLLUTANT na | | | |
| Source of Flow na | - | | | | |
| link X:\MD\SHARE\MD | -Storm\7 NPDES\311 S | WQ_Complaints | \2022\2 - [| OW Screening\1 | 6_H11-NW West BI |
| AIR_TEMP_F | 73 | Lab | | | |
| WATER_TEMP_F | 0 | Lab_R | eport | | |
| рН | | E_0 | coli_Colifo | rm_mpn/100ml | |
| CONDUCTIVITY_Umos/cm | | | | Ammonia_mg | /I |
| BOD_mg/l | | | 1 | Nitrite_NO2_mg | / |
| COD_mg/l | | | N | litrate_NO3_mg | /I |
| TSS_mg/I | | | TKN_T | ot_Kjeld_N_mg | /I |
| TDS_mg/I | | | Phosphoi | rus_total_mg/l_ | Р |
| N-Hexane Extractable-(Oil_G | rease)_mg/l | | Hardne | ess_mg/l_CaCO3 | 3 |
| Floride_mg/l | | | | Chlorine_mg/l | |



| LOCATION | SNOW VIST | A ARROYO A | AT DE \ | /ARGAS SW | 1 |
|-----------------------------|---------------------|----------------|-------------|----------------------|-------------------|
| OUTFALL_NO 17 | QUAD SW | GRID | M-09 | SAMPLED | |
| DATE_INSP 3/18/202 | 2 TIME | 11:20 | | Inspected by | MM |
| WEATHER SUNNY | flow NO FL | OW | | FLOW_GPM | 0 |
| APPEARANCE na | GROSS F | OLLUTANT na | | | |
| Source of Flow na | | | | | |
| link X:\MD\SHARE\MD | -Storm\7_NPDES\311_ | SWQ Complaints | \2022\2 - | DW Screening\1 | 7-M9-SW-snow vist |
| AIR_TEMP_F | 44 | Lab | | | |
| WATER_TEMP_F | na | Lab_R | eport | | |
| рН | | E_ | coli_Colifo | orm_mpn/100ml | |
| CONDUCTIVITY_Umos/cm | | | | Ammonia_mg | /I |
| BOD_mg/l | | | | Nitrite_NO2_mg | ;/I |
| COD_mg/l | | | | Nitrate_NO3_mg | :/ |
| TSS_mg/I | | | TKN_ | Tot_Kjeld_N_mg | :/1 |
| TDS_mg/I | | | Phospho | prus_total_mg/l_ | P |
| N-Hexane Extractable-(Oil_G | rease)_mg/l | | Hardn | ess_mg/I_CaCO3 | 3 |
| Floride_mg/l | | | | Chlorine_mg/l | |



| LOCATION | MONT | ANO EAST O | F COORS NW | |
|-----------------------------|--------------------|----------------|---------------------------|----------------|
| OUTFALL_NO 18 | QUAD NW | GRID | E-12 SAMPLED | |
| DATE_INSP 4/5/202 | 2 TIME | 1:00 | Inspected by | MM-LM |
| WEATHER SUNNY | flow NO FI | _OW | FLOW_GPM | 0 |
| APPEARANCE na | GROSS | POLLUTANT na | | |
| Source of Flow na | | | | |
| link X:\MD\SHARE\MD | -Storm\7 NPDES\311 | SWQ Complaints | \2022\2 - DW Screening\18 | -E12-NW Montan |
| AIR_TEMP_F | 77 | Lab | | |
| WATER_TEMP_F | na | Lab_R | eport | |
| рН | | E_ | coli_Coliform_mpn/100ml | |
| CONDUCTIVITY_Umos/cm | | | Ammonia_mg/l | |
| BOD_mg/l | | | Nitrite_NO2_mg/ | |
| COD_mg/I | | | Nitrate_NO3_mg/ | |
| TSS_mg/I | | | TKN_Tot_Kjeld_N_mg/ | |
| TDS_mg/I | | | Phosphorus_total_mg/l_P | |
| N-Hexane Extractable-(Oil_G | rease)_mg/l | | Hardness_mg/I_CaCO3 | |
| Floride_mg/l | | | Chlorine_mg/l | |



LOCATION **MONTANO NW PS-47 WEST OF RIO GRANDE BLVD** SAMPLED 🗸 19 QUAD NW GRID OUTFALL_NO F-12 DATE INSP 4/6/2022 TIME 9:34 MM-LM Inspected by flow YES FLOW GPM WEATHER **SUNNY** APPEARANCE cloudy GROSS POLLUTANT Musty odor, small particulates, no sheens Source of Flow groundwater Infiltration X:\MD\SHARE\MD-Storm\7_NPDES\311_SWQ_Complaints\2022\2 - DW Screening\19-F12-NW-Montan link Lab AIR_TEMP_F 54 HALL ENVIRONMENTAL 46 Lab_Report WATER_TEMP_F 2204257 рΗ E_coli_Coliform_mpn/100ml 677 7.10 CONDUCTIVITY_Umos/cm 450 Ammonia_mg/l <1 BOD_mg/l 39 Nitrite NO2 mg/l < 0.5 COD_mg/l 104 Nitrate_NO3_mg/l < 0.5 TSS mg/l TKN_Tot_Kjeld_N_mg/l <4 1.4 TDS_mg/l 335 Phosphorus total mg/l P 0.27 Hardness_mg/I_CaCO3 N-Hexane Extractable-(Oil_Grease)_mg/l <9.56 140 Floride mg/l 1.0 Chlorine mg/l < 0.05



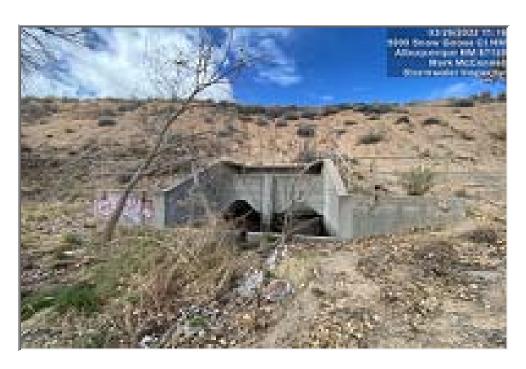
| LOCATION | CANDELARIA NW PS-40 AT RIO GRANDE | | | | | | | | | |
|--|-----------------------------------|-------|--------|-----------|-------------------|--------|-------|--|--|--|
| OUTFALL_NO | 20 QUAD NW | _ | GRID | G-12 | SAMPLED | ✓ | | | | |
| DATE_INSP 4 | 1/6/2022 TIME | 10:32 | | | Inspected by | MM-LM | | | | |
| WEATHER SUI | NNY | YES | | | FLOW_GPM | | 1 | | | |
| APPEARANCE clear GROSS POLLUTANT No odor, fine particulates, no sheen | | | | | | | | | | |
| Source of Flow well wash water | | | | | | | | | | |
| link X:\MD\SHARE\MD-Storm\7 NPDES\311 SWQ Complaints\2022\2 - DW Screening\20-G12-NW-Candela | | | | | | | | | | |
| AIR_TEMP_F | 59 | | Lab | | HALL ENVIRONM | 1ENTAL | | | | |
| WATER_TEMP_F | 55 | | Lab_Re | eport | | 22042 | 57 | | | |
| рН | 7.89 | | E_c | oli_Colif | orm_mpn/100ml | | 56.5 | | | |
| CONDUCTIVITY_Umo | s/cm 420 | | | | Ammonia_mg/ | /I | <1 | | | |
| BOD_mg/l | 30 | | | | Nitrite_NO2_mg | /I | <0.1 | | | |
| COD_mg/l | <20 | | | | Nitrate_NO3_mg | /I | <0.1 | | | |
| TSS_mg/I | <4 | | | TKN | _Tot_Kjeld_N_mg, | /I | <1 | | | |
| TDS_mg/I | 285 | | | Phosph | orus_total_mg/l_I | Р | 0.063 | | | |
| N-Hexane Extractable-(Oil_Grease)_mg/l <9.46 Hardness_mg/l_CaCO3 | | | | | | 3 | 150 | | | |
| Floride_mg/l | 0.34 | | | | Chlorine_mg/l | | <0.05 | | | |



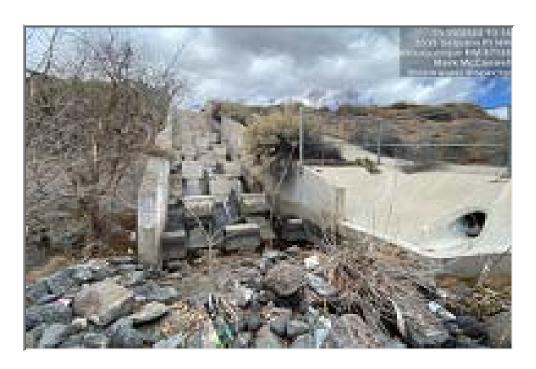
| LOCATION | NAMASTE AND COORS NW | | | | | | | | | | |
|---|----------------------|---------|--------------|-------------------|----|--|--|--|--|--|--|
| OUTFALL_NO 21 | QUAD NW | GF | F-11 | SAMPLED | | | | | | | |
| DATE_INSP 3/29/202 | 2 TIME | 9:20 | | Inspected by | MM | | | | | | |
| WEATHER SUNNY | flow N | IO FLOW | | FLOW_GPM | 0 | | | | | | |
| APPEARANCE na GROSS POLLUTANT na | | | | | | | | | | | |
| Source of Flow na | | | | | | | | | | | |
| link X:\MD\SHARE\MD-Storm\7 NPDES\311 SWQ Complaints\2022\2 - DW Screening\21-F12-NW-Namast | | | | | | | | | | | |
| AIR_TEMP_F | 54 | | Lab | | | | | | | | |
| WATER_TEMP_F | na | | Lab_Report | | | | | | | | |
| рН | | | E_coli_Colif | orm_mpn/100ml | | | | | | | |
| CONDUCTIVITY_Umos/cm | | | | Ammonia_mg/l | | | | | | | |
| BOD_mg/l | | | | Nitrite_NO2_mg/l | | | | | | | |
| COD_mg/l | | | | Nitrate_NO3_mg/l | | | | | | | |
| TSS_mg/I | | | TKN_ | _Tot_Kjeld_N_mg/l | | | | | | | |
| TDS_mg/I | | | Phospho | orus_total_mg/l_P | | | | | | | |
| N-Hexane Extractable-(Oil_G | rease)_mg/l | | Hardr | ness_mg/l_CaCO3 | | | | | | | |
| Floride_mg/l | | | | Chlorine_mg/l | | | | | | | |



| LOCATION | SNOW GOOSE AT OXBOW BLUFF NW | | | | | |
|-----------------------------|------------------------------|-------------------------------------|----------------|--|--|--|
| OUTFALL_NO 22 | QUAD NW | GRID G-11 SAMPLED | | | | |
| DATE_INSP 3/29/202 | 2 TIME 11:18 | Inspected by | MM | | | |
| WEATHER PARTLY CL | OUDY flow NO FLOW | FLOW_GPM | 0 | | | |
| APPEARANCE na | GROSS POLLUTA | ANT na | | | | |
| Source of Flow na | | | | | | |
| link X:\MD\SHARE\MD | -Storm\7 NPDES\311 SWQ C | Complaints\2022\2 - DW Screening\22 | -G11-NW - Snow | | | |
| AIR_TEMP_F | 57 | Lab | | | | |
| WATER_TEMP_F | na | Lab_Report | | | | |
| рН | | E_coli_Coliform_mpn/100ml | | | | |
| CONDUCTIVITY_Umos/cm | | Ammonia_mg/ | | | | |
| BOD_mg/l | | Nitrite_NO2_mg/ | 1 | | | |
| COD_mg/l | | Nitrate_NO3_mg/ | 1 | | | |
| TSS_mg/I | | TKN_Tot_Kjeld_N_mg/ | 1 | | | |
| TDS_mg/I | | Phosphorus_total_mg/l_P | | | | |
| N-Hexane Extractable-(Oil_G | rease)_mg/l | Hardness_mg/I_CaCO3 | | | | |
| Floride_mg/l | | Chlorine_mg/l | | | | |



| LOCATION | SEQUOIA N | NW AT RIO GF | RANDE | |
|-----------------------------|--------------------------|-------------------|------------------|------------------|
| OUTFALL_NO 23 | QUAD NW | GRID G-11 | SAMPLED | |
| DATE_INSP 3/28/202 | 2 TIME 2:24 | | Inspected by | MM |
| WEATHER PARTLY CL | OUDY flow NO FLOW | | FLOW_GPM | 0 |
| APPEARANCE na | GROSS POLLUTA | ANT na | | |
| Source of Flow na | | | | |
| link X:\MD\SHARE\MD | -Storm\7 NPDES\311 SWQ (| Complaints\2022\2 | DW Screening\2 | 3-G11-NW -Sequoi |
| AIR_TEMP_F | 74 | Lab | | |
| WATER_TEMP_F | na | Lab_Report | | |
| рН | | E_coli_Colif | orm_mpn/100ml | |
| CONDUCTIVITY_Umos/cm | | | Ammonia_mg | /I |
| BOD_mg/l | | | Nitrite_NO2_mg | g/I |
| COD_mg/l | | | Nitrate_NO3_mg | g/I |
| TSS_mg/I | | TKN | TotKjeldNmg | g/I |
| TDS_mg/l | | Phosph | orus_total_mg/l_ | P |
| N-Hexane Extractable-(Oil_G | rease)_mg/l | Hardı | ness_mg/I_CaCO3 | 3 |
| Floride_mg/l | | | Chlorine_mg/l | |



| LOCATION | REDLANDS - | GRANDE VIS | TA NW | |
|-----------------------------|--------------------------|---------------------|--------------------|--------------|
| OUTFALL_NO 24 | QUAD NW | GRID G-12 | SAMPLED | |
| DATE_INSP 3/29/202 | 2 TIME 10:39 | | Inspected by MN | Л |
| WEATHER SUNNY | flow NO FLOW | | FLOW_GPM | 0 |
| APPEARANCE na | GROSS POLLUTA | ANT na | | |
| Source of Flow na | | | | |
| link X:\MD\SHARE\MD | -Storm\7 NPDES\311 SWQ C | Complaints\2022\2 - | DW Screening\24-G2 | 11-NW-Grande |
| AIR_TEMP_F | 57 | Lab | | |
| WATER_TEMP_F | na | Lab_Report | | |
| рН | | E_coli_Colife | orm_mpn/100ml | |
| CONDUCTIVITY_Umos/cm | | | Ammonia_mg/l | |
| BOD_mg/l | | | Nitrite_NO2_mg/I | |
| COD_mg/l | | | Nitrate_NO3_mg/l | |
| TSS_mg/I | | TKN_ | Tot_Kjeld_N_mg/l | |
| TDS_mg/I | | Phospho | orus_total_mg/l_P | |
| N-Hexane Extractable-(Oil_G | rease)_mg/l | Hardn | ess_mg/I_CaCO3 | |
| Floride_mg/l | | | Chlorine_mg/l | |



| LOCATION | PASEO DEL REY - OL | JRAY - VISTA | GRANDE NW | 1 |
|-------------------------------|-------------------------|--------------------|-------------------|------------------|
| OUTFALL_NO 25 | QUAD NW | GRID H-11 | SAMPLED | |
| DATE_INSP 3/28/2022 | TIME 2:10 | | Inspected by MI | M |
| WEATHER PARTLY CLOU | UDY flow NO FLOW | | FLOW_GPM | 0 |
| APPEARANCE na | GROSS POLLUTA | NT na | | |
| Source of Flow na | | | | |
| link X:\MD\SHARE\MD-St | torm\7 NPDES\311 SWQ Co | omplaints\2022\2 - | DW Screening\25-H | 111-NW - S of Ou |
| AIR_TEMP_F 7 | 73 | Lab | | |
| WATER_TEMP_F | ia | Lab_Report | | |
| рН | | E_coli_Colifc | orm_mpn/100ml | |
| CONDUCTIVITY_Umos/cm | | | Ammonia_mg/l | |
| BOD_mg/I | | | Nitrite_NO2_mg/l | |
| COD_mg/I | | 1 | Nitrate_NO3_mg/l | |
| TSS_mg/I | | TKN_ | Tot_Kjeld_N_mg/l | |
| TDS_mg/I | | Phospho | rus_total_mg/l_P | |
| N-Hexane Extractable-(Oil_Gre | rase)_mg/l | Hardn | ess_mg/I_CaCO3 | |
| Floride_mg/l | | | Chlorine_mg/l | |



| LOCATION | TION DURANES NW PS AT RIO GRANDE | | | | | |
|---------------------------|----------------------------------|--------------|-----------|------------|---------------------|------------------|
| OUTFALL_NO 26 | QUAD NW | _ | GRID | H-12 | SAMPLED | \checkmark |
| DATE_INSP 4/8/2 | 022 TIME | 1:44 | | | Inspected by | MM |
| WEATHER SUNNY | flow | YES | | | FLOW_GPM | 5 |
| APPEARANCE clear | G | ROSS POLLUTA | NT No O | dor, mini | mal Particulates, I | No Sheen |
| Source of Flow | well wash water | | | | | |
| link X:\MD\SHARE\N | //D-Storm\7_NPDE | S\311 SWQ C | omplaints | \2022\2 | - DW Screening\20 | 6-H12-NW-Durance |
| AIR_TEMP_F | 69 | | Lab | | HALL ENVIRONM | 1ENTAL |
| WATER_TEMP_F | 55 | | Lab_R | Report | | 2204419 |
| рН | 8.09 | | E_ | coli_Colif | form_mpn/100ml | 488.4 |
| CONDUCTIVITY_Umos/cm | 520 | | | | Ammonia_mg/ | <1 |
| BOD_mg/l | 2.0 | | | | Nitrite_NO2_mg | <0.5 |
| COD_mg/l | <400 | | | | Nitrate_NO3_mg | /I <0.5 |
| TSS_mg/I | <4 | | | TKN | _Tot_Kjeld_N_mg | /I <1 |
| TDS_mg/I | 371 | | | Phosph | orus_total_mg/l_ | P 0.056 |
| N-Hexane Extractable-(Oil | _Grease)_mg/l | <9.93 | | Hard | ness_mg/I_CaCO3 | 180 |
| Floride_mg/l | <0.5 | | | | Chlorine_mg/l | <0.05 |



| LOCATION | CALLE DEL \ | /ISTA-ATRISC | O NW | |
|-----------------------------|---------------------------|--------------------|------------------|-----------------|
| OUTFALL_NO 27 | QUAD NW | GRID H-11 | SAMPLED | |
| DATE_INSP 3/28/202 | 2 TIME 12:42 | | Inspected by | ИM |
| WEATHER PARTLY CL | OUDY flow NO FLOW | | FLOW_GPM | 0 |
| APPEARANCE na | GROSS POLLUTA | NT na | | |
| Source of Flow na | | | | |
| link X:\MD\SHARE\MD | -Storm\7 NPDES\311 SWQ Co | omplaints\2022\2 - | DW Screening\27- | H11-NW 1800 Cal |
| AIR_TEMP_F | 73 | Lab | | |
| WATER_TEMP_F | na | Lab_Report | | |
| рН | | E_coli_Colifc | orm_mpn/100ml | |
| CONDUCTIVITY_Umos/cm | | | Ammonia_mg/l | |
| BOD_mg/l | | | Nitrite_NO2_mg/l | |
| COD_mg/I | | 1 | Nitrate_NO3_mg/l | |
| TSS_mg/I | | TKN_ | Tot_Kjeld_N_mg/l | |
| TDS_mg/I | | Phospho | rus_total_mg/l_P | |
| N-Hexane Extractable-(Oil_G | rease)_mg/l | Hardn | ess_mg/I_CaCO3 | |
| Floride_mg/l | | | Chlorine_mg/l | |



| LOCATION | WESTCLIFFE | AND JOSEPHI | NE NW | |
|-----------------------------|--------------------------|--------------------|-------------------|------------------|
| OUTFALL_NO 28 | QUAD NW | GRID H-12 | SAMPLED |] |
| DATE_INSP 3/28/202 | 2 TIME 2:00 | | Inspected by M | M |
| WEATHER PARTLY CL | OUDY flow NO FLOW | | FLOW_GPM | 0 |
| APPEARANCE na | GROSS POLLUTA | NT na | | |
| Source of Flow na | | | | |
| link X:\MD\SHARE\MD | -Storm\7 NPDES\311 SWQ C | omplaints\2022\2 - | DW Screening\28-F | H11-NW - Westcli |
| AIR_TEMP_F | 73 | Lab | | |
| WATER_TEMP_F | na | Lab_Report | | |
| рН | | E_coli_Colife | orm_mpn/100ml | |
| CONDUCTIVITY_Umos/cm | | | Ammonia_mg/I | |
| BOD_mg/l | | | Nitrite_NO2_mg/l | |
| COD_mg/I | | | Nitrate_NO3_mg/l | |
| TSS_mg/I | | TKN_ | Tot_Kjeld_N_mg/l | |
| TDS_mg/I | | Phospho | orus_total_mg/l_P | |
| N-Hexane Extractable-(Oil_G | rease)_mg/l | Hardn | ess_mg/l_CaCO3 | |
| Floride_mg/l | | | Chlorine_mg/l | |



| LOCATION | SAN JOSE DRAIN AT RIO BRAVO SW | | | | | |
|-----------------------------|--------------------------------|----------------|----------------------------|-----------------|--|--|
| OUTFALL_NO 29 | QUAD SW | GRID | P-13 SAMPLED | | | |
| DATE_INSP 3/18/202 | 2 TIME | 10:30 | Inspected by | ИM | | |
| WEATHER SUNNY | flow NO F | LOW | FLOW_GPM | 0 | | |
| APPEARANCE na | GROSS | POLLUTANT na | | | | |
| Source of Flow na | - | | | | | |
| link X:\MD\SHARE\MD | -Storm\7_NPDES\311 | SWQ Complaints | \2022\2 - DW Screening\29- | P14-SE-San Jose | | |
| AIR_TEMP_F | 44 | Lab | | | | |
| WATER_TEMP_F | na | Lab_R | Report | | | |
| рН | | E_ | coli_Coliform_mpn/100ml | | | |
| CONDUCTIVITY_Umos/cm | | | Ammonia_mg/I | | | |
| BOD_mg/l | | | Nitrite_NO2_mg/l | | | |
| COD_mg/I | | | Nitrate_NO3_mg/l | | | |
| TSS_mg/I | | | TKN_Tot_Kjeld_N_mg/l | | | |
| TDS_mg/I | | | Phosphorus_total_mg/l_P | | | |
| N-Hexane Extractable-(Oil_G | rease)_mg/l | | Hardness_mg/I_CaCO3 | | | |
| Floride_mg/l | | | Chlorine_mg/l | | | |



| LOCATION | ATRISCO-ATRISCO PL-RIVERVIEW NW | | | | | | | |
|-----------------------------|---------------------------------|-----------|----------|----------|-------------|-------------------|-------------------|----|
| OUTFALL_NO 30 | QUAD | NW | | GRID | J-11 | SAMPLED | | |
| DATE_INSP 1/18/202 | 2 TIME | | 9:17 | | | Inspected by | MM | |
| WEATHER SUNNY | f | NO FI | _OW | | | FLOW_GPM | 0 | |
| APPEARANCE na | | GROSS | POLLUTAI | NT na | | | | |
| Source of Flow na | | | | | | | | |
| link X:\MD\SHARE\MD | -Storm\7 | NPDES\311 | SWQ_Cc | mplaints | \2022\2 - | DW Screening\30 |)-J11-NW - Rivers | id |
| AIR_TEMP_F | 41 | | | Lab | | | | |
| WATER_TEMP_F | na | | | Lab_R | eport | | | |
| рН | | | | E_ | coli_Colifo | orm_mpn/100ml | | |
| CONDUCTIVITY_Umos/cm | | | | | | Ammonia_mg/ | Ί | |
| BOD_mg/I | | | | | | Nitrite_NO2_mg/ | /1 | |
| COD_mg/I | | | | | 1 | Nitrate_NO3_mg/ | /1 | |
| TSS_mg/I | | | | | TKN_ | Tot_Kjeld_N_mg/ | / | |
| TDS_mg/I | | | | | Phospho | orus_total_mg/l_F | | |
| N-Hexane Extractable-(Oil_G | rease)_m | g/l | | | Hardn | ess_mg/l_CaCO3 | | |
| Floride_mg/l | | | | | | Chlorine_mg/l | | |



| LOCATION | OCATION LABAJADA-ATRISCO-NORTH 30 IN PIPE | | | | | |
|-----------------------------|---|----------------|-------------|--------------------|--------------------|--|
| OUTFALL_NO 31 | QUAD NW | GRID | J-11 | SAMPLED | ✓ | |
| DATE_INSP 4/7/202 | 2 TIME | 1:20 | | Inspected by | MM-LM | |
| WEATHER SUNNY | flow YES | | | FLOW_GPM | 1 | |
| APPEARANCE clear | GROSS P | OLLUTANT No oc | dor, fine p | articulates, no sh | een | |
| Source of Flow gro | undwater and irrigatio | n | | | | |
| link X:\MD\SHARE\MD | -Storm\7_NPDES\311 | SWQ Complaints | \2022\2 - | DW Screening\3: | 1-J11-NW - Atrisco | |
| AIR_TEMP_F | 63 | Lab | | HALL ENVIRONM | IENTAL | |
| WATER_TEMP_F | 69 | Lab_R | eport | | 2204360 | |
| рН | 7.53 | E_ | coli_Colif | orm_mpn/100ml | 5.2 | |
| CONDUCTIVITY_Umos/cm | 590 | | | Ammonia_mg/ | <1 | |
| BOD_mg/l | 5.6 | | | Nitrite_NO2_mg | <0.5 | |
| COD_mg/I | 43 | | | Nitrate_NO3_mg, | <0.5 | |
| TSS_mg/I | 54 | | TKN_ | Tot_Kjeld_N_mg, | 1.3 | |
| TDS_mg/l | 378 | | Phospho | orus_total_mg/l_l | 0.32 | |
| N-Hexane Extractable-(Oil_G | rease)_mg/l <9.6 | 64 | Hardn | ess_mg/I_CaCO3 | 170 | |
| Floride_mg/l | 0.67 | | | Chlorine_mg/l | <0.05 | |



| LOCATION | TION LABAJADA-ATRISCO-SOUTH 36 IN PIPE | | | | | |
|-----------------------------|--|----------------|---------------------------|------------------|--|--|
| OUTFALL_NO 32 | QUAD NW | GRID | J-11 SAMPLED | | | |
| DATE_INSP 4/7/202 | 2 TIME | 1:20 | Inspected by | MM-LM | | |
| WEATHER SUNNY | flow NO FL | LOW . | FLOW_GPM | 0 | | |
| APPEARANCE na | GROSS | POLLUTANT na | | | | |
| Source of Flow na | | | | | | |
| link X:\MD\SHARE\MD | -Storm\7_NPDES\311 | SWQ Complaints | \2022\2 - DW Screening\32 | J11_NW - Atrisco | | |
| AIR_TEMP_F | 63 | Lab | | | | |
| WATER_TEMP_F | na | Lab_R | Report | | | |
| рН | | E_ | coli_Coliform_mpn/100ml | | | |
| CONDUCTIVITY_Umos/cm | | | Ammonia_mg/l | | | |
| BOD_mg/l | | | Nitrite_NO2_mg/ | | | |
| COD_mg/l | | | Nitrate_NO3_mg/ | | | |
| TSS_mg/I | | | TKN_Tot_Kjeld_N_mg/ | | | |
| TDS_mg/I | | | Phosphorus_total_mg/l_P | | | |
| N-Hexane Extractable-(Oil_G | rease)_mg/l | | Hardness_mg/l_CaCO3 | | | |
| Floride_mg/l | | | Chlorine_mg/l | | | |



LOCATION **CENTRAL-SUNSET-OSAGE PS-44 TWO PIPES 36 AND 42 IN** SAMPLED 🗸 33 QUAD NW GRID OUTFALL_NO J-12 DATE INSP 4/7/2022 TIME 2:13 MM - LM Inspected by 2 flow YES FLOW GPM SUNNY WEATHER APPEARANCE clear GROSS POLLUTANT No odor, fine particulates, no sheen Source of Flow groundwater X:\MD\SHARE\MD-Storm\7_NPDES\311_SWQ_Complaints\2022\2 - DW Screening\33-J12-NW-Central-S link Lab AIR_TEMP_F 63 HALL ENVIRONMENTAL Lab_Report WATER_TEMP_F 69 2204360 рΗ E_coli_Coliform_mpn/100ml 4.1 8.16 CONDUCTIVITY_Umos/cm 590 Ammonia_mg/l <1 BOD_mg/l <2 Nitrite NO2 mg/l < 0.5 COD_mg/l <20 Nitrate_NO3_mg/l < 0.5 TSS mg/l TKN_Tot_Kjeld_N_mg/l <1 TDS_mg/l 398 Phosphorus total mg/l P 0.11 Hardness_mg/I_CaCO3 N-Hexane Extractable-(Oil_Grease)_mg/l <9.69 210 Chlorine mg/l Floride mg/l 0.68 < 0.05



| LOCATION | CENTRAL-SU | NSET-OSAGE | NW P | S-44-6 IN PI | PE |
|-----------------------------|--------------------|----------------|------------|----------------------|--------------------|
| OUTFALL_NO 34 | QUAD NW | GRID | J-12 | SAMPLED | |
| DATE_INSP 3/28/202 | 2 TIME | 12:10 | | Inspected by | MM |
| WEATHER PARTLY CL | OUDY flow NO F | LOW | | FLOW_GPM | 0 |
| APPEARANCE na | GROSS | POLLUTANT na | | | |
| Source of Flow na | - | | | | |
| link X:\MD\SHARE\MD | -Storm\7_NPDES\311 | SWQ Complaints | \2022\2 - | DW Screening\3 | 4-J12-NW-Central-S |
| AIR_TEMP_F | 71 | Lab | | | |
| WATER_TEMP_F | na | Lab_R | Report | | |
| рН | | E_ | coli_Colif | orm_mpn/100ml | |
| CONDUCTIVITY_Umos/cm | | | | Ammonia_mg | / |
| BOD_mg/l | | | | Nitrite_NO2_mg | g/I |
| COD_mg/l | | | | Nitrate_NO3_mg | g/I |
| TSS_mg/I | | | TKN_ | TotKjeldNmg | g/I |
| TDS_mg/I | | | Phospho | orus_total_mg/l_ | P |
| N-Hexane Extractable-(Oil_G | rease)_mg/l | | Hardr | ness_mg/l_CaCO3 | 3 |
| Floride_mg/l | | | | Chlorine_mg/ | |



| LOCATION | ALCALDE SW PS-41 AT RIO GRANDE | | | | | |
|-----------------------------|--------------------------------|---------------------|-------------------|------------------|--|--|
| OUTFALL_NO 35 | QUAD SW | GRID K-13 | SAMPLED |] | | |
| DATE_INSP 3/28/202 | 2 TIME 12:10 |) | Inspected by M | М | | |
| WEATHER PARTLY CL | OUDY flow NO FLOW | | FLOW_GPM | 0 | | |
| APPEARANCE na | GROSS POLLU | TANT na | | | | |
| Source of Flow na | | | | | | |
| link X:\MD\SHARE\MD | -Storm\7_NPDES\311_SWQ | Complaints\2022\2 - | DW Screening\35-k | (13-SW Alcalde a | | |
| AIR_TEMP_F | 71 | Lab | | | | |
| WATER_TEMP_F | na | Lab_Report | | | | |
| рН | | E_coli_Colif | orm_mpn/100ml | | | |
| CONDUCTIVITY_Umos/cm | | | Ammonia_mg/l | | | |
| BOD_mg/l | | | Nitrite_NO2_mg/l | | | |
| COD_mg/l | | | Nitrate_NO3_mg/l | | | |
| TSS_mg/I | | TKN_ | _Tot_Kjeld_N_mg/l | | | |
| TDS_mg/I | | Phospho | orus_total_mg/l_P | | | |
| N-Hexane Extractable-(Oil_G | rease)_mg/I | Hardr | ness_mg/I_CaCO3 | | | |
| Floride_mg/l | | | Chlorine_mg/l | | | |



| LOCATION | | NDC AT ALAI | MEDA N | NE | |
|-----------------------------|-------------------------|--------------------|-------------|-------------------|-----------------|
| OUTFALL_NO 36 | QUAD NE | GRID | C-17 | SAMPLED | ✓ |
| DATE_INSP 3/8/20 | 22 TIME | 3:00 | _ | Inspected by | MM |
| WEATHER SUNNY | flow YES | | | FLOW_GPM | 10 |
| APPEARANCE CLEAR | GROSS | S POLLUTANT No (| Odor, No S | heen, Heavy Parti | iculates |
| Source of Flow w | ell wash water, irrigat | ion, water hydrant | flushing a | nd broken waterli | nes |
| link X:\MD\SHARE\M | D-Storm\7_NPDES\31 | 1 SWQ Complaint | s\2022\2 - | - DW Screening\3 | 6-C17-NE-NDC at |
| AIR_TEMP_F | 78 | Lab | | HALL ENVIRONN | MENTAL |
| WATER_TEMP_F | 70 | Lab_ | Report | | 2204419 |
| рН | 9.98 | E. | _coli_Colif | orm_mpn/100ml | 18.9 |
| CONDUCTIVITY_Umos/cm | 1100 | | | Ammonia_mg | / <1 |
| BOD_mg/l | 6.1 | | | Nitrite_NO2_mg | <0.5 |
| COD_mg/l | 62.2 | | | Nitrate_NO3_mg | <0.5 |
| TSS_mg/I | <4 | | TKN_ | _Tot_Kjeld_N_mg | 1.8 |
| TDS_mg/I | 726 | | Phosph | orus_total_mg/l_ | P 0.074 |
| N-Hexane Extractable-(Oil_0 | Grease)_mg/l < | 9.76 | Hardı | ness_mg/I_CaCO3 | 190 |
| Floride_mg/l | 1.4 | | | Chlorine mg/l | <0.05 |



| LOCATION | TIJERAS ARROYO AT 2ND ST SW | | | | |
|-----------------------------|-----------------------------|----------------|-----------------|----------------|----------------|
| OUTFALL_NO 37 | QUAD SW | GRID | Q-12 S | AMPLED | |
| DATE_INSP 3/18/202 | 2 TIME | 11:36 | Inspe | ected by MM | |
| WEATHER SUNNY | flow NO FL | OW | FLO | W_GPM | 0 |
| APPEARANCE na | GROSS F | POLLUTANT na | | | |
| Source of Flow na | <u> </u> | | | | |
| link X:\MD\SHARE\MD | -Storm\7_NPDES\311_ | SWQ_Complaints | \2022\2 - DW Sc | reening\37-Q13 | -SE-Tijeras Ch |
| AIR_TEMP_F | 44 | Lab | | | |
| WATER_TEMP_F | na | Lab_R | eport | | |
| рН | | E_ | coli_Coliform_m | pn/100ml | |
| CONDUCTIVITY_Umos/cm | | | Amn | nonia_mg/l | |
| BOD_mg/l | | | Nitrite | _NO2_mg/l | |
| COD_mg/l | | | Nitrate | _NO3_mg/l | |
| TSS_mg/I | | | TKN_Tot_Kje | eld_N_mg/l | |
| TDS_mg/I | | | Phosphorus_to | tal_mg/l_P | |
| N-Hexane Extractable-(Oil_G | rease)_mg/l | | Hardness_mg | g/I_CaCO3 | |
| Floride_mg/l | | | Chlo | rine_mg/l | |



| LOCATION MIRANDELA BY PUEBLO | PARK SE OF COORS AND MONTANO NW |
|---|--|
| OUTFALL_NO 38 QUAD NW | GRID E-12 SAMPLED |
| DATE_INSP 2/7/2022 TIME 8 | :26 Inspected by MM |
| WEATHER PARTLY CLOUDY flow NO FLO | W FLOW_GPM 0 |
| APPEARANCE na GROSS PC | LLUTANT na |
| Source of Flow na | |
| link X:\MD\SHARE\MD-Storm\7_NPDES\311_S | WQ_Complaints\2022\2 - DW Screening\38 and 39-E12-NW-P |
| AIR_TEMP_F 33 | Lab |
| WATER_TEMP_F na | Lab_Report |
| рН | E_coli_Coliform_mpn/100ml |
| CONDUCTIVITY_Umos/cm | Ammonia_mg/I |
| BOD_mg/l | Nitrite_NO2_mg/I |
| COD_mg/l | Nitrate_NO3_mg/I |
| TSS_mg/I | TKN_Tot_Kjeld_N_mg/l |
| TDS_mg/l | Phosphorus_total_mg/l_P |
| N-Hexane Extractable-(Oil_Grease)_mg/l | Hardness_mg/I_CaCO3 |
| Floride_mg/l | Chlorine_mg/I |



| LOCATION BOSQUE SCHOOL AND MIRANI | DELA SE OF COORS AND MONTANO NW |
|---|---|
| OUTFALL_NO QUAD NW | GRID E-12 SAMPLED |
| DATE_INSP 2/7/2022 TIME 8:26 | Inspected by MM |
| WEATHER PARTLY CLOUDY flow NO FLOW | FLOW_GPM 0 |
| APPEARANCE na GROSS POLLUT | TANT na |
| Source of Flow na | |
| link X:\MD\SHARE\MD-Storm\7 NPDES\311 SWQ | Complaints\2022\2 - DW Screening\38 and 39-E12-NW-P |
| AIR_TEMP_F 33 | Lab |
| WATER_TEMP_F na | Lab_Report |
| рН | E_coli_Coliform_mpn/100ml |
| CONDUCTIVITY_Umos/cm | Ammonia_mg/I |
| BOD_mg/I | Nitrite_NO2_mg/l |
| COD_mg/I | Nitrate_NO3_mg/I |
| TSS_mg/I | TKN_Tot_Kjeld_N_mg/I |
| TDS_mg/I | Phosphorus_total_mg/l_P |
| N-Hexane Extractable-(Oil_Grease)_mg/l | Hardness_mg/l_CaCO3 |
| Floride_mg/l | Chlorine_mg/I |



| LOCATION | 1406-1412 RIVERVIEW NW | | | | | |
|-----------------------------|------------------------|---------------|--------------|------------------|----------------|--|
| OUTFALL_NO 40 | QUAD NW | GRID | J-11 | SAMPLED | | |
| DATE_INSP 3/28/202 | 2 TIME 1 | 2:54 | | Inspected by | | |
| WEATHER PARTLY CL | OUDY flow NO FLO | W | | FLOW_GPM | 0 | |
| APPEARANCE na | GROSS PC | OLLUTANT na | | | | |
| Source of Flow na | | | | | | |
| link X:\MD\SHARE\MD | -Storm\7 NPDES\311 S | WQ_Complaints | \2022\2 - D | W Screening\40-J | 11-NW-Rivervie | |
| AIR_TEMP_F | 73 | Lab | | | | |
| WATER_TEMP_F | na | Lab_R | eport | | | |
| рН | | E_ | coli_Colifor | m_mpn/100ml | | |
| CONDUCTIVITY_Umos/cm | | | | Ammonia_mg/l | | |
| BOD_mg/l | | | N | itrite_NO2_mg/l | | |
| COD_mg/l | | | Ni | trate_NO3_mg/l | | |
| TSS_mg/I | | | TKN_T | ot_Kjeld_N_mg/l | | |
| TDS_mg/I | | | Phosphore | us_total_mg/l_P | | |
| N-Hexane Extractable-(Oil_G | rease)_mg/l | | Hardnes | ss_mg/I_CaCO3 | | |
| Floride_mg/l | | | | Chlorine_mg/l | | |



Attachment 5 Map and Listing of Illicit Discharges

311 NPDES Calls

Annual Report

FY 2022

(7/1/2021 to 6/30/2022)

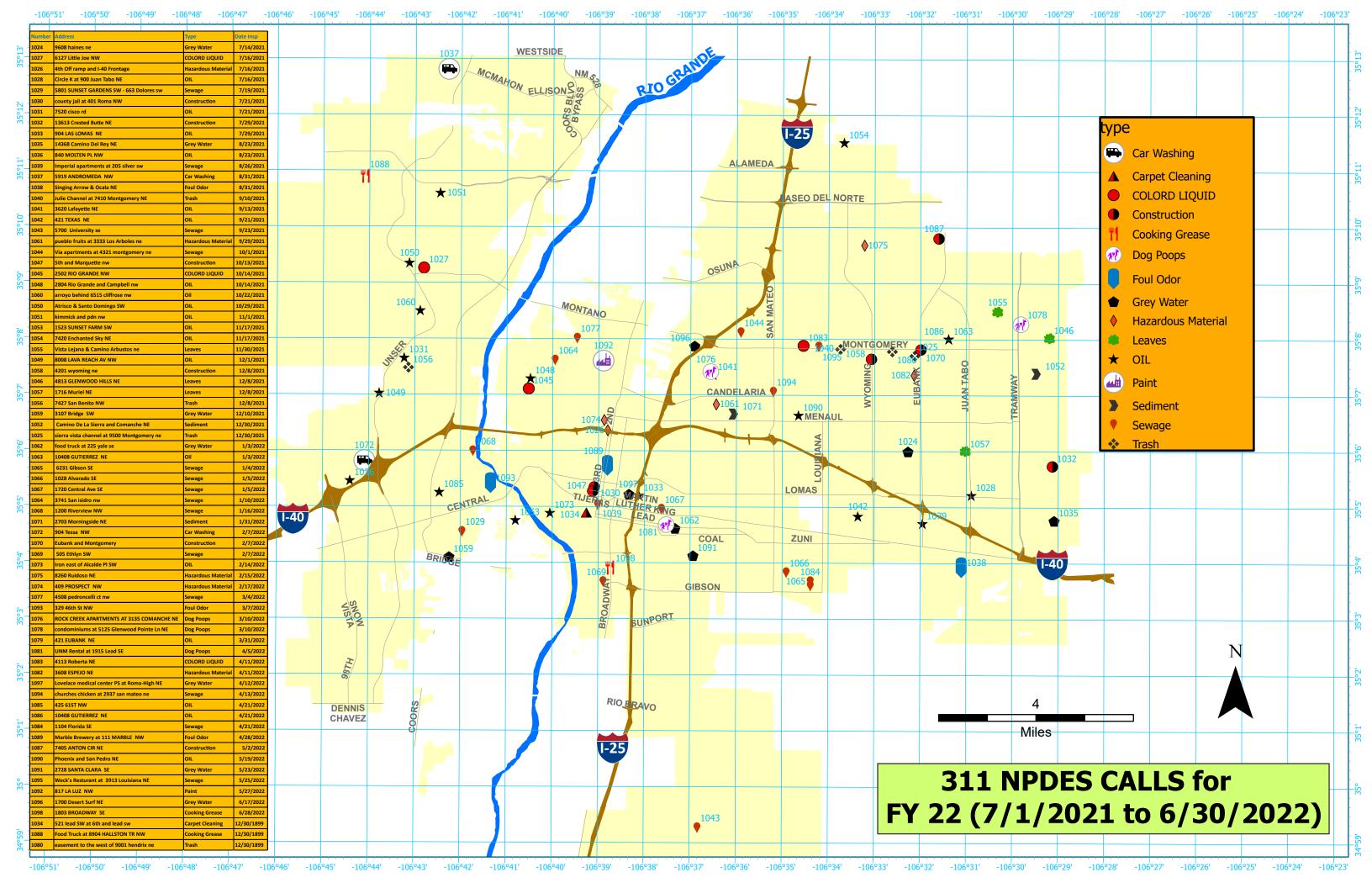


Table of Contents

| EVENT_ID | Complaint_Date | Facility_Address | Type_of_Complaint | page |
|----------|----------------|--|--------------------|------|
| 1024 | 7/2/2021 | 9608 haines ne | Grey Water | 1 |
| 1025 | 7/15/2021 | sierra vista channel at 9500 Montgomery ne | Trash | 2 |
| 1026 | 7/16/2021 | 4th Off ramp and I-40 Frontage | Hazardous Material | 3 |
| 1027 | 7/16/2021 | 6127 Little Joe NW | COLORD LIQUID | 4 |
| 1028 | 7/16/2021 | Circle K at 900 Juan Tabo NE | OIL | 5 |
| 1029 | 7/16/2021 | 5801 SUNSET GARDENS SW - 663 Dolores sw | Sewage | 6 |
| 1030 | 7/21/2021 | county jail at 401 Roma NW | Construction | 7 |
| 1031 | 7/21/2021 | 7520 cisco rd | OIL | 8 |
| 1032 | 7/28/2021 | 13613 Crested Butte NE | Construction | 9 |
| 1033 | 7/29/2021 | 904 LAS LOMAS NE | OIL | 10 |
| 1034 | 8/10/2021 | 521 lead SW at 6th and lead sw | Carpet Cleaning | 11 |
| 1035 | 8/10/2021 | 14368 Camino Del Rey NE | Grey Water | 12 |
| 1036 | 8/23/2021 | 840 MOLTEN PL NW | OIL | 13 |
| 1037 | 8/24/2021 | 5919 ANDROMEDA NW | Car Washing | 14 |
| 1038 | 8/25/2021 | Singing Arrow & Ocala NE | Foul Odor | 15 |
| 1039 | 8/26/2021 | Imperial apartments at 205 silver sw | Sewage | 16 |
| 1040 | 9/9/2021 | Julie Channel at 7410 Montgomery NE | Trash | 17 |
| 1041 | 9/10/2021 | 3620 Lafayette NE | OIL | 18 |
| 1042 | 9/20/2021 | 421 TEXAS NE | OIL | 19 |
| 1043 | 9/23/2021 | 5700 University se | Sewage | 20 |
| 1044 | 10/1/2021 | Via apartments at 4321 montgomery ne | Sewage | 21 |
| 1045 | 10/2/2021 | 2502 RIO GRANDE NW | COLORD LIQUID | 22 |
| 1046 | 10/4/2021 | arroyo next to 4813 GLENWOOD HILLS NE | Leaves | 23 |
| 1047 | 10/13/2021 | 5th and Marquette nw | Construction | 24 |
| 1048 | 10/14/2021 | 2804 Rio Grande and Campbell nw | OIL | 25 |
| 1049 | 10/20/2021 | 8008 LAVA REACH AV NW | OIL | 26 |
| 1050 | 10/29/2021 | Atrisco & Santo Domingo SW | OIL | 27 |
| 1051 | 11/1/2021 | kimmick and pdn nw | OIL | 28 |
| 1052 | 11/9/2021 | Camino De La Sierra and Comanche NE | Sediment | 29 |

| EVENT_ID | Complaint_Date | Facility_Address | Type_of_Complaint | page |
|----------|----------------|--|--------------------|------|
| 1053 | 11/15/2021 | 1523 SUNSET FARM SW | OIL | 30 |
| 1054 | 11/16/2021 | 7420 Enchanted Sky NE | OIL | 31 |
| 1055 | 11/24/2021 | Vista Lejana & Camino Arbustos ne | Leaves | 32 |
| 1056 | 12/3/2021 | 7427 San Benito NW | Trash | 33 |
| 1057 | 12/6/2021 | 1716 Muriel NE | Leaves | 34 |
| 1058 | 12/8/2021 | dunkin donuts at 4201 wyoming ne | Construction | 35 |
| 1059 | 12/10/2021 | 3107 Bridge SW | Grey Water | 36 |
| 1060 | 9/22/2021 | arroyo behind 6515 cliffrose nw | OIL | 37 |
| 1061 | 9/27/2021 | pueblo fruits at 3333 Los Arboles ne | Hazardous Material | 38 |
| 1062 | 12/2/2021 | food truck at 225 yale se | Grey Water | 39 |
| 1063 | 12/20/2021 | 10408 GUTIERREZ NE | OIL | 40 |
| 1064 | 12/30/2021 | 3741 San isidro nw | Sewage | 41 |
| 1065 | 1/4/2022 | 6231 Gibson SE | Sewage | 42 |
| 1066 | 1/5/2022 | 1028 Alvarado SE | Sewage | 43 |
| 1067 | 1/5/2022 | Alon Gas station at 1718/1720 Central Ave SE | Sewage | 44 |
| 1068 | 1/18/2022 | 1200 Riverview NW | Sewage | 45 |
| 1069 | 2/1/2022 | 505 Ethlyn SW | Sewage | 46 |
| 1070 | 1/20/2022 | Eubank and Montgomery | Construction | 47 |
| 1071 | 1/31/2022 | 2703 Morningside NE | Sediment | 48 |
| 1072 | 1/31/2022 | 904 Tessa NW | Car Washing | 49 |
| 1073 | 2/14/2022 | Iron east of Alcalde PI SW | OIL | 50 |
| 1074 | 2/15/2022 | 409 PROSPECT NW | Hazardous Material | 51 |
| 1075 | 2/15/2022 | 8260 Ruidoso NE | Hazardous Material | 52 |
| 1076 | 2/20/2022 | ROCK CREEK APARTMENTS AT 3135 COMANCHE NE | Dog Poops | 53 |
| 1077 | 3/2/2022 | 4508 pedroncelli ct nw | Sewage | 54 |
| 1078 | 3/4/2022 | condominiums at 5125 Glenwood Pointe Ln NE | Dog Poops | 55 |
| 1079 | 3/31/2022 | 421 EUBANK NE | OIL | 56 |
| 1080 | 4/3/2022 | easement to the west of 9001 hendrix ne | Trash | 57 |
| 1081 | 4/5/2022 | UNM Rental at 1915 Lead SE | Dog Poops | 58 |
| 1082 | 4/8/2022 | 3608 ESPEJO NE | Hazardous Material | 59 |
| 1083 | 4/11/2022 | 4113 Roberta NE | COLORD LIQUID | 60 |

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|----------|----------------|---|-------------------|------|
| 1084 | 4/11/2022 | 1104 Florida SE | Sewage | 61 |
| 1085 | 4/14/2022 | 425 61ST NW | OIL | 62 |
| 1086 | 4/15/2022 | 10408 GUTIERREZ NE | OIL | 63 |
| 1087 | 4/22/2022 | 7405 ANTON CIR NE | Construction | 64 |
| 1088 | 4/22/2022 | Food Truck at 8904 HALLSTON TR NW | Cooking Grease | 65 |
| 1089 | 4/25/2022 | Marble Brewery at 111 MARBLE NW | Foul Odor | 66 |
| 1090 | 5/19/2022 | Phoenix and San Pedro NE | OIL | 67 |
| 1091 | 5/21/2022 | 2728 SANTA CLARA SE | Grey Water | 68 |
| 1092 | 5/26/2022 | 817 LA LUZ NW | Paint | 69 |
| 1093 | 3/6/2022 | 329 46th St NW | Foul Odor | 70 |
| 1094 | 4/13/2022 | churches chicken at 2937 san mateo ne | Sewage | 71 |
| 1095 | 5/25/2022 | Weck's Resturant at 3913 Louisiana NE | Sewage | 72 |
| 1096 | 6/14/2022 | Flagship Food Group-Desert Premium Food at 1700 Desert Surf NE | Grey Water | 73 |
| 1097 | 4/12/2022 | Lovelace medical center PS at Roma-High NE | Grey Water | 74 |
| 1098 | 6/25/2022 | 1803 BROADWAY SE | Cooking Grease | 75 |