



July 29, 2020

Hand Delivered

Travis Peacock/Merat Zarreii – Industrial Pretreatment Engineer/NPDES Program Manager
Albuquerque Bernalillo County Water Utility Authority
P.O. Box 568
Albuquerque, New Mexico 87103-0568

RE: Semi-Annual Report
Name: Intel Corporation
Permit Number: 2021A
Reporting Period: January 1, 2020 through June 30, 2020

Enclosed is Intel Corporation's Semi-Annual Report for the above stated reporting period as required in the Wastewater Discharge Permit for the facility noted above.

The following information is enclosed:

Endorsement

Special Wastestream Pollutant Limitations - Cerium
Cyanide Certification
Average and Daily Effluent Flow Monitoring
Grease Traps, Sand Traps and Oil/Water Separators
Hazardous Air Pollutants Certification
Hazardous Substances and Pretreatment Wastes for Permit # 2021A
2021A pH Monitoring
Reporting Certification
Special Wastestream Pollutant Limitations for Permit 2021A
Toxic Organic Management Plan Certification Statement
Source Reduction and Waste Minimization Statement

Code

CE
CN
FM6
GS
HAPS
HZ3
PH3
RC
SWSP
TC3
WM

Attachments:

- A – Intel NM H1 2020 Grease Trap Pumping Manifests
- B – Weekly Cerium Sampling Reports
- C – Semi-Annual Monitoring SWSP Analytical Results
- D – Site Outfall Flow Meter Calibration Records

To clarify any information submitted, please contact Amy Reed at (505) 794-6841, or by email at amy.reed@intel.com.

Sincerely,

Mindy Koch
NM Site Corporate Services Manager

Enclosures

Permit #: 2021A
Permittee: Intel Corporation
Address: 4100 Sara Road
City: Rio Rancho
State, Zip: NM, 87124-1025

Reporting Requirements

<u>Code</u>	<u>Endorsement</u>
CE	SPECIAL WASTESTREAM POLLUTANT LIMITATIONS - CERIUM
CN	CYANIDE CERTIFICATION
FM6	AVERAGE AND DAILY EFFLUENT FLOW MONITORING
GS	GREASE TRAPS, SAND TRAPS AND OIL/WATER SEPARATORS
HAPS	HAZARDOUS AIR POLLUTANTS CERTIFICATION
HZ3	HAZ WASTE PERMIT 2021A
PH3	PH MONITORING PERMIT 2021A
RC	REPORTING CERTIFICATION
SWSP	SPECIAL WASTESTREAM POLLUTANT LIMITATIONS
TC3	TOMP CERTIFICATION STATEMENT
WM	WASTE MIN. PERMIT 2021A

ENDORSEMENT CE

SPECIAL WASTESTREAM POLLUTANT LIMITATIONS FOR PERMIT 2021A

COMPLIANCE REQUIREMENT: The concentration of Cerium in the flow through the sampling point shall not exceed that shown below:

POLLUTANT	MAXIMUM FOR ANY 1-DAY	MONTHLY AVG
Cerium	12.0 mg/L	3.0 mg/L

MONITORING REQUIREMENT: The Permittee is required to sample the site discharge for the above pollutants weekly (once per week) at the permitted sample point. Sample to be taken using 24-hour composite sample.

REPORTING REQUIREMENT: The Permittee is required to report weekly sample data monthly (once per month) to the Pretreatment Program. Permittee is required to include this data in their Semi-Annual Report as part of the "Special Wastestream Report".

In compliance with Endorsement CE, Hall Environmental Analysis Laboratory submits cerium sampling results to Intel NM and ABCWUA simultaneously when results are ready. Results were submitted as follows for H2 2019 reporting:

- **March 2nd, 2020** (December sample results)
- **March 16th, 2020** (January sample results)
- **May 12th, 2020** (March sample results)
- **May 19th, 2020** (February sample results)
- **June 9th, 2020** (April sample results)
- **July 3rd, 2020** (May sample results)

The sample reports are included for reference in Attachment B. Requirements of Endorsement CE have been met for the samples included in this Semi-Annual Report. The June 2020 results for Cerium sampling were not available before submitting this report; they will be included in the 2020 H2 Semi-Annual Report. The December 2019 results for Cerium were not available before submitting the 2019 H2 Semi-Annual Report and have been provided in this report.

ENDORSEMENT CN

CYANIDE CERTIFICATION

COMPLIANCE REQUIREMENT: See below.

MONITORING REQUIREMENT: None required by the Permittee.

REPORTING REQUIREMENT: The Permittee shall report either the presence or absence of Cyanide compounds on the premises during the reporting period. Example CYANIDE CERTIFICATION STATEMENTS are shown below. The Permittee shall submit the appropriate certification statement shown below with each semi-annual report submittal.

* * * *

CYANIDE CERTIFICATION STATEMENT (CYANIDE NOT PRESENT)


I hereby certify that no cyanide compounds are stored or used on the premises at this time and that no cyanide compounds were stored or used on the premises during the current permit reporting period. I further certify that the presence of any cyanide compound on the premises shall be reported to the Industrial Waste Engineer (873-7047) within 24 hours of receipt of the compound, regardless of the intended use or disposition of the material.

Facility Name: _____
Permit No.: _____ Date: _____
Signature: _____ Title: _____
Authorized Representative

* * * *

CYANIDE CERTIFICATION STATEMENT (CYANIDE PRESENT)

I hereby certify that cyanide compounds were stored or used on the premises during the current permit reporting period.

Facility Name: Intel Corporation
Permit No.: 2021A Date: 7/29/2020
Signature:  Title: NM Corporate Services Manager
Authorized Representative

Cyanide compounds present on the NM site during this reporting period are listed below:

Chemical Ingredient	CAS
Sodium Dichloroisocyanurate	2893-78-9
Sodium Nitroferricyanide	14402-89-2
Ethyl Cyanoacrylate	7085-85-0
Hexylcyanobiphenyl	41122-70-7
2-Propenoic acid, 2-methyl-, 3-cyano- hexahydro-2-oxo-3,5-methano-2H-cyclopenta[b]furan-6-yl ester, polymer with 1-cyclohexyl-1-methylethyl 2-methyl-2-propenoate, cyclohexyl 2-methyl-2-propenoate and 3,5-dihydroxytricyclo[3.3.1.1 ^{3,7}]dec-1-yl 2-methyl-2-propenoate L-08-0243	929196-98-5

ENDORSEMENT FM6

AVERAGE AND DAILY EFFLUENT FLOW MONITORING

COMPLIANCE REQUIREMENT: The holder of this Permit must meet the requirements of 40 CFR 403.12(e)(1), and shall submit to the Pretreatment Program, along with the semi-annual report during the months of January and July, a report which shall include a record of measured or estimated average and maximum daily flows for the reporting period of the effluent from this facility. The report shall also include a copy of this endorsement, with the relevant information filled in below.

The Pretreatment Section may allow for verifiable estimates of these flows, where justified by cost or feasibility considerations.

MONITORING REQUIREMENT: Average and maximum daily flows of all regulated process streams and, as necessary, other effluent streams from the facility.

REPORTING REQUIREMENT: The Permittee shall submit information showing the measured average daily and maximum daily flow, in gallons per day (gpd) to the Pretreatment Program from each of the following:

1. Regulated process streams; and
2. Other streams as necessary to allow use of the Combined Waste Stream Formula.

The permit holder shall submit flow meter calibration documentation with the semi-annual reports.

Average Daily Flow: 1,843,990 gallons per day

Peak Daily Flow: 2,363,409 gallons per day

Peak Daily Flow occurred on: 4/13/2020 date

In compliance with Endorsement FM6, documentation of calibration is attached in Attachment D. The site outfall flow meters were calibrated on February 21st, 2020.

DAILY EFFLUENT FLOW MONITORING

Per 40 CFR 403.12(e)(1) Intel is submitting measured average and maximum flow data for regulated process streams and un-regulated streams.

January 2020

Date	Site Outfall Flow Average (gpm)	Acid Waste Neutralization Unregulated/Dilute Flows (gpm)	Regulated Flows Average (gpm)	Unreg/Dil Flows Average (gpm)
1/1/2020	1,140	136	996	144
1/2/2020	1,226	141	1,077	149
1/3/2020	1,380	314	1,057	323
1/4/2020	1,255	140	1,106	149
1/5/2020	1,353	314	1,031	323
1/6/2020	1,180	136	1,036	144
1/7/2020	1,166	136	1,022	144
1/8/2020	1,359	310	1,041	318
1/9/2020	1,263	140	1,114	149
1/10/2020	1,311	312	991	320
1/11/2020	1,152	133	1,010	142
1/12/2020	1,170	141	1,021	149
1/13/2020	1,320	309	1,003	317
1/14/2020	1,267	141	1,118	149
1/15/2020	1,261	206	1,046	215
1/16/2020	1,284	252	1,024	260
1/17/2020	1,218	141	1,069	149
1/18/2020	1,328	282	1,038	290
1/19/2020	1,149	167	973	175
1/20/2020	1,173	142	1,023	150
1/21/2020	1,448	317	1,123	325
1/22/2020	1,277	149	1,119	157
1/23/2020	1,304	309	986	318
1/24/2020	1,152	135	1,009	144
1/25/2020	1,153	132	1,012	140
1/26/2020	1,296	398	890	406
1/27/2020	1,184	140	1,035	149
1/28/2020	1,284	360	915	369
1/29/2020	1,335	346	980	355
1/30/2020	1,207	138	1,060	146
1/31/2020	1,230	139	1,083	147
	gpm	gpd		
Average	1,252	1,803,393		
Peak	1,448	2,085,266	Peak Date	1/21/2020

February 2020

Date	Site Outfall Flow Average (gpm)	Acid Waste Neutralization Unregulated/Dilute Flows (gpm)	Regulated Flows Average (gpm)	Unreg/Dil Flows Average (gpm)
2/1/2020	1,438	491	938	499
2/2/2020	1,284	308	968	317
2/3/2020	1,126	140	978	148
2/4/2020	1,159	141	1,010	149
2/5/2020	1,160	142	1,009	151
2/6/2020	1,209	142	1,059	150
2/7/2020	1,489	484	997	492
2/8/2020	1,130	137	984	145
2/9/2020	1,168	142	1,017	151
2/10/2020	1,201	142	1,050	151
2/11/2020	1,224	137	1,078	145
2/12/2020	1,420	367	1,045	376
2/13/2020	1,286	256	1,021	264
2/14/2020	1,160	137	1,015	145
2/15/2020	1,122	137	977	145
2/16/2020	1,140	148	984	156
2/17/2020	1,319	311	1,000	319
2/18/2020	1,303	310	985	319
2/19/2020	1,187	142	1,036	151
2/20/2020	1,134	137	989	146
2/21/2020	1,234	138	1,087	146
2/22/2020	1,395	311	1,075	319
2/23/2020	1,221	138	1,075	146
2/24/2020	1,399	312	1,079	320
2/25/2020	1,235	143	1,083	151
2/26/2020	1,224	138	1,077	147
2/27/2020	1,227	139	1,080	147
2/28/2020	1,376	312	1,056	320
2/29/2020	1,341	312	1,021	320
	gpm	gpd		
Average	1,252	1,803,038		
Peak	1,489	2,144,416	Peak Date	2/7/2020

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March 2020

Date	Site Outfall Flow Average (gpm)	Acid Waste Neutralization Unregulated/Dilute Flows (gpm)	Regulated Flows Average (gpm)	Unreg/Dil Flows Average (gpm)
3/1/2020	1,178	138	1,031	146
3/2/2020	1,223	143	1,072	151
3/3/2020	1,196	138	1,049	147
3/4/2020	1,378	312	1,058	321
3/5/2020	1,241	144	1,089	152
3/6/2020	1,378	313	1,057	321
3/7/2020	1,190	144	1,038	152
3/8/2020	1,233	144	1,080	152
3/9/2020	1,384	313	1,063	321
3/10/2020	1,278	149	1,120	158
3/11/2020	1,188	139	1,041	147
3/12/2020	1,396	317	1,070	326
3/13/2020	1,291	144	1,139	152
3/14/2020	1,423	318	1,097	326
3/15/2020	1,203	144	1,050	153
3/16/2020	1,287	150	1,128	159
3/17/2020	1,438	305	1,124	314
3/18/2020	1,262	141	1,113	149
3/19/2020	1,294	158	1,128	166
3/20/2020	1,388	278	1,102	286
3/21/2020	1,199	132	1,059	140
3/22/2020	1,244	138	1,098	146
3/23/2020	1,404	309	1,087	317
3/24/2020	1,314	189	1,117	197
3/25/2020	1,343	253	1,082	261
3/26/2020	1,231	131	1,092	139
3/27/2020	1,287	142	1,136	151
3/28/2020	1,457	310	1,138	319
3/29/2020	1,275	135	1,132	144
3/30/2020	1,454	312	1,134	320
3/31/2020	1,282	141	1,132	149
	gpm	gpd		
Average	1,302	1,874,681		
Peak	1,457	2,097,654	Peak Date	3/28/2020

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April 2020

Date	Site Outfall Flow Average (gpm)	Acid Waste Neutralization Unregulated/Dilute Flows (gpm)	Regulated Flows Average (gpm)	Unreg/Dil Flows Average (gpm)
4/1/2020	1,297	146	1,143	154
4/2/2020	1,393	285	1,099	293
4/3/2020	1,319	194	1,117	202
4/4/2020	1,327	266	1,052	275
4/5/2020	1,211	138	1,065	146
4/6/2020	1,361	144	1,209	152
4/7/2020	1,299	163	1,127	171
4/8/2020	1,561	320	1,233	328
4/9/2020	1,527	313	1,206	321
4/10/2020	1,247	136	1,103	144
4/11/2020	1,306	142	1,156	150
4/12/2020	1,267	137	1,122	145
4/13/2020	1,641	482	1,151	490
4/14/2020	1,312	143	1,161	152
4/15/2020	1,316	147	1,161	155
4/16/2020	1,261	135	1,117	144
4/17/2020	1,237	135	1,093	144
4/18/2020	1,590	472	1,110	480
4/19/2020	1,279	149	1,121	158
4/20/2020	1,244	143	1,093	151
4/21/2020	1,239	130	1,100	139
4/22/2020	1,270	146	1,115	155
4/23/2020	1,439	337	1,094	346
4/24/2020	1,338	291	1,039	299
4/25/2020	1,213	137	1,068	145
4/26/2020	1,195	137	1,050	145
4/27/2020	1,200	143	1,048	152
4/28/2020	1,378	315	1,055	323
4/29/2020	1,448	312	1,128	321
4/30/2020	1,198	134	1,055	143
	gpm	gpd		
Average	1,330	1,915,868		
Peak	1,641	2,363,409	Peak Date	4/13/2020

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May 2020

Date	Site Outfall Flow Average (gpm)	Acid Waste Neutralization Unregulated/Dilute Flows (gpm)	Regulated Flows Average (gpm)	Unreg/Dil Flows Average (gpm)
5/1/2020	1,248	146	1,093	155
5/2/2020	1,338	296	1,033	304
5/3/2020	1,243	159	1,076	168
5/4/2020	1,348	317	1,023	325
5/5/2020	1,257	133	1,116	141
5/6/2020	1,143	135	1,000	143
5/7/2020	1,320	258	1,053	267
5/8/2020	1,242	195	1,038	203
5/9/2020	1,473	319	1,146	327
5/10/2020	1,212	136	1,068	144
5/11/2020	1,152	132	1,011	141
5/12/2020	1,399	309	1,082	317
5/13/2020	1,260	136	1,116	144
5/14/2020	1,316	215	1,093	223
5/15/2020	1,318	247	1,063	255
5/16/2020	1,228	135	1,085	144
5/17/2020	1,316	309	999	317
5/18/2020	1,225	148	1,069	157
5/19/2020	1,167	137	1,022	145
5/20/2020	1,361	315	1,037	324
5/21/2020	1,185	139	1,038	148
5/22/2020	1,402	319	1,075	327
5/23/2020	1,223	135	1,080	144
5/24/2020	1,131	139	984	147
5/25/2020	1,332	311	1,013	319
5/26/2020	1,250	131	1,111	139
5/27/2020	1,332	317	1,006	326
5/28/2020	1,192	144	1,040	153
5/29/2020	1,213	143	1,061	152
5/30/2020	1,299	241	1,049	250
5/31/2020	1,356	222	1,126	230
	gpm	gpd		
Average	1,271	1,830,108		
Peak	1,473	2,120,799	Peak Date	5/9/2020

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June 2020

Date	Site Outfall Flow Average (gpm)	Acid Waste Neutralization Unregulated/Dilute Flows (gpm)	Regulated Flows Average (gpm)	Unreg/Dil Flows Average (gpm)
6/1/2020	1,416	320	1,088	328
6/2/2020	1,229	132	1,088	141
6/3/2020	1,227	148	1,071	157
6/4/2020	1,329	276	1,045	284
6/5/2020	1,263	197	1,058	205
6/6/2020	1,352	317	1,026	326
6/7/2020	1,178	138	1,032	146
6/8/2020	1,157	135	1,013	144
6/9/2020	1,197	132	1,057	141
6/10/2020	1,548	466	1,073	474
6/11/2020	1,296	154	1,134	162
6/12/2020	1,173	133	1,032	141
6/13/2020	1,190	133	1,048	142
6/14/2020	1,189	131	1,050	140
6/15/2020	1,414	370	1,036	378
6/16/2020	1,269	250	1,011	258
6/17/2020	1,239	146	1,085	154
6/18/2020	1,168	140	1,020	148
6/19/2020	1,225	142	1,075	150
6/20/2020	1,481	459	1,013	467
6/21/2020	1,263	168	1,087	176
6/22/2020	1,186	145	1,033	153
6/23/2020	1,232	148	1,075	157
6/24/2020	1,174	140	1,026	148
6/25/2020	1,572	497	1,067	506
6/26/2020	1,190	145	1,036	154
6/27/2020	1,152	140	1,004	148
6/28/2020	1,300	148	1,144	156
6/29/2020	1,302	316	977	324
6/30/2020	1,355	205	1,141	214
	gpm	gpd		
Average	1,276	1,836,850		
Peak	1,572	2,263,995	Peak Date	6/25/2020

ENDORSEMENT GS

GREASE TRAPS, SAND TRAPS AND OIL/WATER SEPARATORS

COMPLIANCE REQUIREMENT: Facilities with grease traps, sand traps or oil/water separators shall periodically inspect the operation of these devices and remove accumulated grease, sand, oil or grit as required to prevent discharge of such pollutants (or materials) to the sanitary sewer.

MONITORING REQUIREMENT: The Permittee shall perform periodic inspections, as required, to assure timely removal of accumulated materials.

REPORTING REQUIREMENT: The Permittee shall document in each semi-annual report the method used to dispose of materials removed from grease traps, sand traps or oil/water separators. This must include a narrative statement, along with copies of the manifest forms for each material removed from the Permittee's facility during the reporting period. If no materials are removed during the reporting period, a statement of that fact must be submitted. Sample statements are provided below.

* * * *

Intel NM's grease trap pumping manifests for H1 2020 are included as Attachment A. The grease traps have continued to be pumped twice a month for the H1 reporting period.

GREASE, SAND, OIL OR GRIT SHIPPING CERTIFICATION STATEMENT – NO SHIPMENTS

I hereby certify that the permitted facility HAS active grease traps, sand traps or oil/water separators and NO shipments of accumulated grease, oil, sand or grit have occurred during this reporting period.

Facility Name: _____

Permit No.: _____ Date: _____

Signature: _____ Title: _____

Authorized Representative

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* * * *

GREASE, SAND, OIL OR GRIT SHIPPING CERTIFICATION STATEMENT - SHIPMENTS

I hereby certify that the permitted facility HAS active grease traps, sand traps or oil/water separators and shipments of accumulated grease, oil, sand or grit HAVE occurred during this reporting period. Copies of manifests are attached.

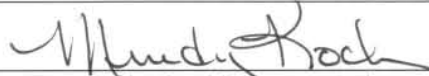
Facility Name: Intel Corporation

Permit No.: 2021A

Date:

7/29/2020

Signature:



Authorized Representative

Title:

NM Corporate Services
Manager

ENDORSEMENT HAPS

HAZARDOUS AIR POLLUTANTS CERTIFICATION

COMPLIANCE REQUIREMENT: The Permittee shall not use the treatment and controls located at the POTW to comply with its NESHAP.

MONITORING REQUIREMENT: None required by the Permittee.

REPORTING REQUIREMENT: The Permittee shall submit the appropriate certification statement shown below with each semi-annual report submittal.

* * * *

NESHAP CERTIFICATION STATEMENT

I hereby certify that this facility does not use the treatment and controls located at the POTW to comply with its NESHAP.

Facility Name: Intel Corporation

Permit No.: 2021A

Date: 7/29/2020

Signature: 
Authorized Representative

Title: NM Corporate Services
Manager

ENDORSEMENT HZ3

HAZARDOUS SUBSTANCES AND PRETREATMENT WASTES

FOR PERMIT # 2021A

COMPLIANCE REQUIREMENT: The permittee shall insure that: 1) all pretreatment processes are handled in accordance with applicable Resource Conservation and Recovery Act (RCRA) regulations, 2) no materials removed by a pretreatment process are reintroduced into the waste stream, and, 3) hazardous substances stored on-site are not discharged to the sanitary sewer. In other words, disposal of pretreatment wastes or hazardous substances into the sanitary sewer is strictly forbidden.

MONITORING REQUIREMENTS: None required by the Permittee.

REPORTING REQUIREMENTS: The permittee shall document in each semi-annual report, the method used to dispose of materials removed by the pretreatment process and/or hazardous substances stored on-site. This must include a narrative statement, along with a summary of all hazardous materials generated from the NM site for the reporting period. All original manifests are to be maintained in the permittee's regulatory files and be available to the Water Authority upon request. If no hazardous substances or pretreatment wastes are removed during the reporting period, a statement of that fact must be submitted. Sample statements are provided.

* * * *

HAZARDOUS SUBSTANCES AND PRETREATMENT WASTES CERTIFICATION
STATEMENT

I hereby certify that NO shipments of hazardous substances or pretreatment wastes have occurred during this reporting period. **NOT APPLICABLE**

Facility Name: _____

Permit No.: _____ Date: _____

Signature: _____ Title: _____
Authorized Representative

US EPA ID. No. _____ (IF APPLICABLE)

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* * * *

HAZARDOUS SUBSTANCES AND PRETREATMENT WASTES CERTIFICATION STATEMENT

I hereby certify that shipments of hazardous substances or pretreatment wastes HAVE occurred during this reporting period. A summary of these shipments has been included with this report.

Facility Name: Intel Corporation

Permit No.: 2021A

Date:

7/29/2020

Signature:


Authorized Representative

Title:

NM Corporate Services
Manager

US EPA ID. No. NMD000609339 (IF APPLICABLE)

HAZARDOUS SUBSTANCES AND PRETREATMENT WASTE MANAGEMENT

Intel Corporation utilizes Veolia Environmental Services Technical Solutions, Evoqua Water Technologies, and Clean Harbors Environmental for removal and disposal of all hazardous substances generated at the New Mexico site.

Veolia Environmental Services Technical Solutions, Evoqua Water Technologies, and Clean Harbors Environmental Services are EPA permitted Treatment Storage and Disposal Facilities (TSDFs). The addresses of the facilities are below:

Veolia Environmental Services Technical Solutions
9131 East 96th Avenue
Henderson, CO 80640
Phone Number: (303) 289-4827

Evoqua Water Technologies
2430 Rose Place
Roseville, MN 55113
Phone Number: (651) 638-1330

Clean Harbors Environmental Services
1340 West Lincoln Street
Phoenix, AZ 85007
Phone Number: (602) 258-6155

A summary report of all hazardous materials generated from the New Mexico site for the reporting period is included. All original manifests are maintained in our regulatory files and are available to the Water Authority upon request.

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Shipping Doc. Number	Ship Date	Profile Number	Waste Name	Quantity (lbs)	Quantity (tons)
014158936FLE	1/2/2020	DECANT HCL37%	Decant HCl37%	38	0.02
013211044FLE	1/2/2020	DECANT OPD4262	Decant OPD4262	33	0.02
013210929FLE	1/2/2020	Decant PBR-40	Decant Drum PBR 40	11	0.01
013210916FLE	1/2/2020	DECANT PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01
013211045FLE	1/3/2020	DECANT OPD4262	Decant OPD4262	33	0.02
013210917FLE	1/3/2020	Decant PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01
001508953VES	1/6/2020	692208	SOLVENT, CORROSIVE - FAB 11 (D002)	43160	21.58
014158937FLE	1/6/2020	DECANT HCL37%	Decant HCl37%	76	0.04
014158947FLE	1/6/2020	DECANT KOH 10%	Decant Drum Potassium Hydroxide 10%	12	0.01
013211046FLE	1/6/2020	DECANT OPD4262	Decant OPD4262	66	0.03
013210918FLE	1/6/2020	Decant PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01
013211047FLE	1/7/2020	DECANT OPD4262	Decant OPD4262	33	0.02
013210930FLE	1/7/2020	Decant PBR-40	Decant Drum PBR 40	11	0.01
013210919FLE	1/7/2020	DECANT PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01
019447881JJK	1/8/2020	7919597	WXSCH4200SNDFFR	1504	0.75
014158938FLE	1/8/2020	DECANT HCL37%	Decant HCl37%	38	0.02
001508663VES	1/9/2020	448115	SOLVENT, GENERAL FAB 11S	39820	19.91
013211048FLE	1/9/2020	DECANT OPD4262	Decant OPD4262	33	0.02
013210931FLE	1/9/2020	Decant PBR-40	Decant Drum PBR 40	11	0.01
014158939FLE	1/10/2020	DECANT HCL37%	Decant HCl37%	38	0.02
013210920FLE	1/10/2020	DECANT PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01
001508954VES	1/13/2020	692208	SOLVENT, CORROSIVE - FAB 11 (D002)	41980	20.99
014158940FLE	1/13/2020	DECANT HCL37%	Decant HCl37%	38	0.02
014162500FLE	1/13/2020	DECANT OPD4262	Decant OPD4262	66	0.03
013210932FLE	1/13/2020	DECANT PBR-40	Decant Drum PBR 40	11	0.01
013210921FLE	1/13/2020	DECANT PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01
014158948FLE	1/14/2020	Decant KOH 10%	Decant Drum Potassium Hydroxide 10%	12	0.01
014162501FLE	1/14/2020	DECANT OPD4262	Decant OPD4262	66	0.03
013488149FLE	1/14/2020	Decant PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01
014158941FLE	1/15/2020	DECANT HCL37%	Decant HCl37%	38	0.02
013488150FLE	1/15/2020	DECANT PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01
001508976VES	1/16/2020	131484	PHOTORESIST WASTE	335	0.17
001508976VES	1/16/2020	202100	IPA CONTAMINATED WIPES	515	0.26

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001508976VES	1/16/2020	202100	IPA CONTAMINATED WIPES	531	0.27
001508976VES	1/16/2020	202100	IPA CONTAMINATED WIPES	488	0.24
001508976VES	1/16/2020	202100	IPA CONTAMINATED WIPES	520	0.26
001508976VES	1/16/2020	366524	AEROSOL CANS	35	0.02
001508976VES	1/16/2020	399825	EDT PARTS	191	0.10
001508976VES	1/16/2020	399825	EDT PARTS	196	0.10
001508976VES	1/16/2020	399825	EDT PARTS	180	0.09
001508976VES	1/16/2020	442913	DEBRIS, ARSENIC	147	0.07
001508976VES	1/16/2020	442913	DEBRIS, ARSENIC	130	0.07
001508976VES	1/16/2020	442913	DEBRIS, ARSENIC	60	0.03
001508976VES	1/16/2020	442913	DEBRIS, ARSENIC	146	0.07
001508976VES	1/16/2020	442913	DEBRIS, ARSENIC	128	0.06
001508976VES	1/16/2020	442913	DEBRIS, ARSENIC	113	0.06
001508976VES	1/16/2020	442913	DEBRIS, ARSENIC	149	0.07
001508976VES	1/16/2020	442913	DEBRIS, ARSENIC	118	0.06
001508976VES	1/16/2020	442913	DEBRIS, ARSENIC	129	0.06
001508976VES	1/16/2020	442913	DEBRIS, ARSENIC	148	0.07
001508976VES	1/16/2020	442913	DEBRIS, ARSENIC	163	0.08
001508976VES	1/16/2020	442913	DEBRIS, ARSENIC	163	0.08
001508976VES	1/16/2020	442913	DEBRIS, ARSENIC	58	0.03
001508976VES	1/16/2020	442913	DEBRIS, ARSENIC	154	0.08
001508976VES	1/16/2020	442913	DEBRIS, ARSENIC	303	0.15
001508976VES	1/16/2020	442914	ARSENIC CONTAMINATED SLURRY MATERIAL	502	0.25
001508976VES	1/16/2020	442923	BROKEN MERCURY LIGHT BULBS	8	0.00
001508976VES	1/16/2020	533335	DEBRIS, SOLVENT-HAZARDOUS	119	0.06
001508976VES	1/16/2020	533335	DEBRIS, SOLVENT-HAZARDOUS	76	0.04
001508976VES	1/16/2020	533335	DEBRIS, SOLVENT-HAZARDOUS	116	0.06
001508976VES	1/16/2020	533335	DEBRIS, SOLVENT-HAZARDOUS	119	0.06
001508976VES	1/16/2020	611853	AEROSOL OVEN CLEANER	3	0.00
001508976VES	1/16/2020	683966	PHOTORESIST RESIN	69	0.03
001508976VES	1/16/2020	683976	DILUTE IPA	157	0.08
001508976VES	1/16/2020	691900	DEBRIS, HOUSE VACUUM	83	0.04
001508976VES	1/16/2020	692557	CYLINDERS, COMPRESSED GASES	16	0.01

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001508976VES	1/16/2020	693403	SOLVENTS, SPIN ON GLASS	269	0.13
001508976VES	1/16/2020	713453	HMDS DEBRIS	61	0.03
001508976VES	1/16/2020	713454	CCW FILTERS, WIPES, ABSORBENTS, PPE	100	0.05
001508976VES	1/16/2020	713455	AEROSOLS - FOOD SERVICE	6	0.00
014158942FLE	1/16/2020	DECANT HCL37%	Decant HCl37%	38	0.02
014162502FLE	1/16/2020	DECANT OPD4262	Decant OPD4262	33	0.02
013211161FLE	1/17/2020	DECANT PK-HUZ	Decant PK-HUZ	31	0.02
001508669VES	1/21/2020	448115	SOLVENT, GENERAL FAB 11S	39800	19.90
014158943FLE	1/21/2020	DECANT HCL37%	Decant HCl37%	76	0.04
014162503FLE	1/21/2020	DECANT OPD4262	Decant OPD4262	132	0.07
013210933FLE	1/21/2020	DECANT PBR-40	Decant Drum PBR 40	22	0.01
013488151FLE	1/21/2020	DECANT PGMEA-PM	Decant Drum PGMEA - PM Acetate	20	0.01
014158944FLE	1/22/2020	DECANT HCL37%	Decant HCl37%	38	0.02
001508955VES	1/23/2020	692208	SOLVENT, CORROSIVE - FAB 11 (D002)	40580	20.29
014158945FLE	1/23/2020	DECANT HCL37%	Decant HCl37%	38	0.02
014162504FLE	1/23/2020	DECANT OPD4262	Decant OPD4262	33	0.02
014158949FLE	1/24/2020	DECANT KOH 10%	Decant Drum Potassium Hydroxide 10%	12	0.01
013488152FLE	1/24/2020	DECANT PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01
013217527FLE	1/27/2020	DECANT HCL37%	Decant HCl37%	76	0.04
013217517FLE	1/27/2020	DECANT OPD4262	Decant OPD4262	66	0.03
013217506FLE	1/27/2020	DECANT PGMEA-PM	Decant Drum PGMEA - PM Acetate	20	0.01
013217518FLE	1/28/2020	DECANT OPD4262	Decant OPD4262	66	0.03
013210934FLE	1/28/2020	DECANT PBR-40	Decant Drum PBR 40	11	0.01
013217529FLE	1/29/2020	DECANT HCL37%	Decant HCl37%	76	0.04
001508956VES	1/30/2020	692208	SOLVENT, CORROSIVE - FAB 11 (D002)	41680	20.84
013217519FLE	1/30/2020	DECANT OPD4262	Decant OPD4262	33	0.02
013210935FLE	1/30/2020	DECANT PBR-40	Decant Drum PBR 40	11	0.01
013217507FLE	1/30/2020	DECANT PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01
013211162FLE	1/30/2020	DECANT PK-HUZ	Decant PK-HUZ	33	0.02
001508868VES	2/3/2020	483253	SOLVENT, GENERAL-MIXED	40600	20.30
013217530FLE	2/3/2020	DECANT HCL37%	Decant HCl37%	76	0.04
014158950FLE	2/3/2020	DECANT KOH 10%	Decant Drum Potassium Hydroxide 10%	12	0.01
013217520FLE	2/3/2020	DECANT OPD4262	Decant OPD4262	99	0.05

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Shipping Doc. Number	Ship Date	Profile Number	Waste Name	Quantity (lbs)	Quantity (tons)
013217508FLE	2/3/2020	DECANT PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01
013217531FLE	2/4/2020	DECANT HCL37%	Decant HCl37%	38	0.02
013217521FLE	2/4/2020	DECANT OPD4262	Decant OPD4262	33	0.02
013217532FLE	2/5/2020	DECANT HCL37%	Decant HCl37%	38	0.02
013210936FLE	2/5/2020	DECANT PBR-40	Decant Drum PBR 40	11	0.01
019447882JJK	2/5/2020	7919597	WXSCH4200SNDFR	1597	0.80
013217509FLE	2/5/2020	Decant PGMEA-PM	Decant Drum PGMEA - PM Acetate	20	0.01
013217522FLE	2/6/2020	DECANT OPD4262	Decant OPD4262	33	0.02
013216986FLE	2/7/2020	Decant PBR-40	Decant Drum PBR 40	11	0.01
001508962VES	2/10/2020	692208	SOLVENT, CORROSIVE - FAB 11 (D002)	42860	21.43
013217533FLE	2/10/2020	DECANT HCL37%	Decant HCl37%	76	0.04
013217523FLE	2/10/2020	DECANT OPD4262	Decant OPD4262	99	0.05
013217510FLE	2/10/2020	DECANT PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01
013217534FLE	2/11/2020	DECANT HCL37%	Decant HCl37%	38	0.02
013217535FLE	2/12/2020	DECANT HCL37%	Decant HCl37%	38	0.02
014158951FLE	2/12/2020	DECANT KOH 10%	Decant Drum Potassium Hydroxide 10%	12	0.01
013217524FLE	2/12/2020	DECANT OPD4262	Decant OPD4262	33	0.02
013217511FLE	2/12/2020	DECANT PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01
013217525FLE	2/13/2020	DECANT OPD4262	Decant OPD4262	33	0.02
011248259FLE	2/14/2020	DecanCMPCleanB G	Decant Drum CMP Cleaner BG1	10	0.01
013217536FLE	2/14/2020	DECANT HCL37%	Decant HCl37%	38	0.02
013216987FLE	2/14/2020	Decant PBR-40	Decant Drum PBR 40	11	0.01
001508963VES	2/18/2020	692208	SOLVENT, CORROSIVE - FAB 11 (D002)	42140	21.07
013217537FLE	2/18/2020	DECANT HCL37%	Decant HCl37%	76	0.04
013217526FLE	2/18/2020	DECANT OPD4262	Decant OPD4262	132	0.07
013216988FLE	2/18/2020	Decant PBR-40	Decant Drum PBR 40	11	0.01
013217512FLE	2/18/2020	Decant PGMEA-PM	Decant Drum PGMEA - PM Acetate	30	0.02
014159314FLE	2/19/2020	DECANT HCL37%	Decant HCl37%	38	0.02
014159315FLE	2/20/2020	DECANT HCL37%	Decant HCl37%	38	0.02
014162505FLE	2/20/2020	DECANT OPD4262	Decant OPD4262	33	0.02
013217513FLE	2/21/2020	Decant PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01
001508670VES	2/24/2020	448115	SOLVENT, GENERAL FAB 11S	40060	20.03
014159316FLE	2/24/2020	DECANT HCL37%	Decant HCl37%	76	0.04
014158952FLE	2/24/2020	Decant KOH 10%	Decant Drum Potassium Hydroxide 10%	12	0.01

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Shipping Doc. Number	Ship Date	Profile Number	Waste Name	Quantity (lbs)	Quantity (tons)
014162506FLE	2/24/2020	DECANT OPD4262	Decant OPD4262	66	0.03
013216989FLE	2/24/2020	DECANT PBR-40	Decant Drum PBR 40	11	0.01
013217514FLE	2/24/2020	DECANT PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01
014162507FLE	2/25/2020	DECANT OPD4262	Decant OPD4262	33	0.02
014159317FLE	2/26/2020	DECANT HCL37%	Decant HCl37%	38	0.02
014162508FLE	2/26/2020	DECANT OPD4262	Decant OPD4262	66	0.03
001508964VES	2/27/2020	692208	SOLVENT, CORROSIVE - FAB 11 (D002)	42020	21.01
014162509FLE	2/27/2020	DECANT OPD4262	Decant OPD4262	33	0.02
013216990FLE	2/27/2020	DECANT PBR-40	Decant Drum PBR 40	11	0.01
013217515FLE	2/27/2020	DECANT PGMEA-PM	Decant Drum PGMEA - PM Acetate	20	0.01
014159318FLE	2/28/2020	DECANT HCL37%	Decant HCl37%	38	0.02
014159319FLE	3/2/2020	DECANT HCL37%	Decant HCl37%	38	0.02
014162510FLE	3/2/2020	DECANT OPD4262	Decant OPD4262	132	0.07
013216991FLE	3/2/2020	Decant PBR-40	Decant Drum PBR 40	11	0.01
013488153FLE	3/2/2020	Decant PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01
014159320FLE	3/3/2020	DECANT HCL37%	Decant HCl37%	38	0.02
014162511FLE	3/4/2020	DECANT OPD4262	Decant OPD4262	33	0.02
019447883JJK	3/4/2020	7919597	WXSCH4200SNDFR	1570	0.79
001508965VES	3/5/2020	692208	SOLVENT, CORROSIVE - FAB 11 (D002)	36480	18.24
014159321FLE	3/5/2020	DECANT HCL37%	Decant HCl37%	38	0.02
014158953FLE	3/5/2020	Decant KOH 10%	Decant Drum Potassium Hydroxide 10%	12	0.01
014162512FLE	3/5/2020	DECANT OPD4262	Decant OPD4262	33	0.02
013488154FLE	3/5/2020	Decant PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01
014159322FLE	3/6/2020	DECANT HCL37%	Decant HCl37%	38	0.02
014159323FLE	3/9/2020	DECANT HCL37%	Decant HCl37%	38	0.02
014162513FLE	3/9/2020	DECANT OPD4262	Decant OPD4262	66	0.03
013216992FLE	3/9/2020	Decant PBR-40	Decant Drum PBR 40	11	0.01
013488155FLE	3/9/2020	Decant PGMEA-PM	Decant Drum PGMEA - PM Acetate	20	0.01
014538959FLE	3/10/2020	DECANT HCL37%	Decant HCl37%	38	0.02
014162514FLE	3/10/2020	DECANT OPD4262	Decant OPD4262	66	0.03
013211163FLE	3/10/2020	DECANT PK-HUZ	Decant PK-HUZ	31	0.02
014538960FLE	3/11/2020	DECANT HCL37%	Decant HCl37%	38	0.02
014159341FLE	3/11/2020	DECANT OPD4262	Decant OPD4262	33	0.02
013488156FLE	3/11/2020	DECANT PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01
001508972VES	3/12/2020	448115	SOLVENT, GENERAL FAB 11S	40700	20.35
014159343FLE	3/12/2020	DECANT OPD4262	Decant OPD4262	33	0.02

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Shipping Doc. Number	Ship Date	Profile Number	Waste Name	Quantity (lbs)	Quantity (tons)
00185516VES	3/13/2020	256683	CLEANSORB COLUMNS	765	0.38
014538961FLE	3/13/2020	DECANT HCL37%	Decant HCl37%	38	0.02
014159344FLE	3/13/2020	DECANT OPD4262	Decant OPD4262	33	0.02
013216993FLE	3/13/2020	Decant PBR-40	Decant Drum PBR 40	11	0.01
001508966VES	3/16/2020	692208	SOLVENT, CORROSIVE - FAB 11 (D002)	41180	20.59
014538962FLE	3/16/2020	DECANT HCL37%	Decant HCl37%	76	0.04
014158954FLE	3/16/2020	DECANT KOH 10%	Decant Drum Potassium Hydroxide 10%	12	0.01
014159345FLE	3/16/2020	DECANT OPD4262	Decant OPD4262	99	0.05
013216994FLE	3/16/2020	DECANT PBR-40	Decant Drum PBR 40	11	0.01
013488157FLE	3/16/2020	Decant PGMEA-PM	Decant Drum PGMEA - PM Acetate	20	0.01
014159346FLE	3/17/2020	DECANT OPD4262	Decant OPD4262	33	0.02
014538963FLE	3/18/2020	DECANT HCL37%	Decant HCl37%	38	0.02
014159347FLE	3/18/2020	DECANT OPD4262	Decant OPD4262	33	0.02
013488158FLE	3/18/2020	Decant PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01
014538964FLE	3/19/2020	DECANT HCL37%	Decant HCl37%	38	0.02
014159348FLE	3/19/2020	DECANT OPD4262	Decant OPD4262	66	0.03
001508967VES	3/23/2020	692208	SOLVENT, CORROSIVE - FAB 11 (D002)	35900	17.95
014538965FLE	3/23/2020	DECANT HCL37%	Decant HCl37%	76	0.04
014159349FLE	3/23/2020	DECANT OPD4262	Decant OPD4262	99	0.05
013216995FLE	3/23/2020	Decant PBR-40	Decant Drum PBR 40	11	0.01
014538928FLE	3/23/2020	Decant PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01
013211164FLE	3/23/2020	DECANT PK-HUZ	Decant PK-HUZ	31	0.02
014538966FLE	3/24/2020	DECANT HCL37%	Decant HCl37%	38	0.02
014159350FLE	3/24/2020	DECANT OPD4262	Decant OPD4262	66	0.03
014538929FLE	3/24/2020	DECANT PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01
014539517FLE	3/24/2020	DECANTMAE10:1:2	Decant MAE 10:1:2	220	0.11
014158955FLE	3/25/2020	Decant KOH 10%	Decant Drum Potassium Hydroxide 10%	12	0.01
013217816FLE	3/25/2020	DECANT OPD4262	Decant OPD4262	33	0.02
014538930FLE	3/26/2020	Decant PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01
013211219FLE	3/27/2020	DECANT AD10	AD10 Decant Totes	16	0.01
014538967FLE	3/27/2020	DECANT HCL37%	Decant HCl37%	38	0.02
014538949FLE	3/27/2020	DECANT OPD4262	Decant OPD4262	33	0.02
014539325FLE	3/27/2020	DECANT PBR-40	Decant Drum PBR 40	11	0.01
014538968FLE	3/30/2020	DECANT HCL37%	Decant HCl37%	38	0.02
014538950FLE	3/30/2020	DECANT OPD4262	Decant OPD4262	66	0.03
014539329FLE	3/30/2020	Decant PBR-40	Decant Drum PBR 40	11	0.01

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Shipping Doc. Number	Ship Date	Profile Number	Waste Name	Quantity (lbs)	Quantity (tons)
014538931FLE	3/30/2020	DECANT PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01
014538969FLE	3/31/2020	DECANT HCL37%	Decant HCl37%	76	0.04
014538951FLE	3/31/2020	DECANT OPD4262	Decant OPD4262	66	0.03
014538932FLE	3/31/2020	DECANT PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01
019447884JJJ	4/1/2020	7919597	WXSCH4200SNDFFR	1691	0.85
001508968VES	4/2/2020	692208	SOLVENT, CORROSIVE - FAB 11 (D002)	40280	20.14
014538933FLE	4/2/2020	DECANT PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01
014538952FLE	4/2/2020	DECANT OPD4262	Decant OPD4262	33	0.02
014538953FLE	4/3/2020	DECANT OPD4262	Decant OPD4262	33	0.02
001508973VES	4/6/2020	448115	SOLVENT, GENERAL FAB 11S	40560	20.28
014159284FLE	4/6/2020	DECANT KOH 10%	Decant Drum Potassium Hydroxide 10%	12	0.01
014538934FLE	4/6/2020	DECANT PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01
014538954FLE	4/6/2020	DECANT OPD4262	Decant OPD4262	33	0.02
014538970FLE	4/6/2020	DECANT HCL37%	Decant HCl37%	76	0.04
014539331FLE	4/6/2020	DECANT PBR-40	Decant Drum PBR 800	11	0.01
014538935FLE	4/7/2020	Decant PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01
014538955FLE	4/7/2020	DECANT OPD4262	Decant OPD4262	33	0.02
014538971FLE	4/7/2020	DECANT HCL37%	Decant HCl37%	76	0.04
014538956FLE	4/8/2020	DECANT OPD4262	Decant OPD4262	33	0.02
001855549VES	4/9/2020	61641	LEAD-ACID BATTERIES (DAMAGED)	15	0.01
001855549VES	4/9/2020	131484	PHOTORESIST WASTE	347	0.17
001855549VES	4/9/2020	202100	IPA CONTAMINATED WIPES	244	0.12
001855549VES	4/9/2020	202100	IPA CONTAMINATED WIPES	477	0.24
001855549VES	4/9/2020	202100	IPA CONTAMINATED WIPES	476	0.24
001855549VES	4/9/2020	202100	IPA CONTAMINATED WIPES	509	0.25
001855549VES	4/9/2020	202100	IPA CONTAMINATED WIPES	511	0.26
001855549VES	4/9/2020	366524	AEROSOL CANS	32	0.02
001855549VES	4/9/2020	399773	SOLVENTS, HMDS	38	0.02
001855549VES	4/9/2020	399825	EDT PARTS	129	0.06
001855549VES	4/9/2020	399825	EDT PARTS	184	0.09
001855549VES	4/9/2020	442913	DEBRIS, ARSENIC	96	0.05
001855549VES	4/9/2020	442913	DEBRIS, ARSENIC	133	0.07
001855549VES	4/9/2020	442913	DEBRIS, ARSENIC	115	0.06

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Shipping Doc. Number	Ship Date	Profile Number	Waste Name	Quantity (lbs)	Quantity (tons)
001855549VES	4/9/2020	442913	DEBRIS, ARSENIC	104	0.05
001855549VES	4/9/2020	442913	DEBRIS, ARSENIC	114	0.06
001855549VES	4/9/2020	442913	DEBRIS, ARSENIC	100	0.05
001855549VES	4/9/2020	442913	DEBRIS, ARSENIC	137	0.07
001855549VES	4/9/2020	442913	DEBRIS, ARSENIC	132	0.07
001855549VES	4/9/2020	442913	DEBRIS, ARSENIC	147	0.07
001855549VES	4/9/2020	442913	DEBRIS, ARSENIC	165	0.08
001855549VES	4/9/2020	442913	DEBRIS, ARSENIC	131	0.07
001855549VES	4/9/2020	442913	DEBRIS, ARSENIC	111	0.06
001855549VES	4/9/2020	442913	DEBRIS, ARSENIC	139	0.07
001855549VES	4/9/2020	442923	BROKEN MERCURY LIGHT BULBS	11	0.01
001855549VES	4/9/2020	533335	DEBRIS, SOLVENT-HAZARDOUS	127	0.06
001855549VES	4/9/2020	533335	DEBRIS, SOLVENT-HAZARDOUS	124	0.06
001855549VES	4/9/2020	533335	DEBRIS, SOLVENT-HAZARDOUS	117	0.06
001855549VES	4/9/2020	683966	PHOTORESIST RESIN	86	0.04
001855549VES	4/9/2020	691900	DEBRIS, HOUSE VACUUM	113	0.06
001855549VES	4/9/2020	692557	CYLINDERS, COMPRESSED GASES	16	0.01
001855549VES	4/9/2020	693403	SOLVENTS, SPIN ON GLASS	316	0.16
001855549VES	4/9/2020	713453	HMDS DEBRIS	56	0.03
001855549VES	4/9/2020	770512	PK-HUZ LOOSEPACK	152	0.08
001855549VES	4/9/2020	810691	CONTAMINATED TMAH HEEL	222	0.11
001855549VES	4/9/2020	822140	CORROSIVE TOXIC LIQUID WASTE	11	0.01
013211165FLE	4/9/2020	DECANT PK-HUZ	Decant PK-HUZ	31	0.02
014538936FLE	4/9/2020	DECANT PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01
014538957FLE	4/10/2020	DECANT OPD4262	Decant OPD4262	33	0.02
014539332FLE	4/10/2020	DECANT PBR-40	Decant Drum PBR 800	11	0.01
001508969VES	4/13/2020	692208	SOLVENT, CORROSIVE - FAB 11 (D002)	42460	21.23
014159285FLE	4/13/2020	Decant KOH 10%	Decant Drum Potassium Hydroxide 10%	12	0.01
014538937FLE	4/13/2020	Decant PGMEA-PM	Decant Drum PGMEA - PM Acetate	20	0.01
014538958FLE	4/13/2020	DECANT OPD4262	Decant OPD4262	99	0.05
014539333FLE	4/13/2020	Decant PBR-40	Decant Drum PBR 800	11	0.01
012708158FLE	4/15/2020	Dec CLK-222	Decant Drum CLK-222,corrosive	10	0.01
014539339FLE	4/15/2020	DECANT OPD4262	Decant OPD4262	33	0.02

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Shipping Doc. Number	Ship Date	Profile Number	Waste Name	Quantity (lbs)	Quantity (tons)
001508869VES	4/16/2020	483253	SOLVENT, GENERAL-MIXED	28500	14.25
014539340FLE	4/16/2020	DECANT OPD4262	Decant OPD4262	33	0.02
001855553VES	4/17/2020	256683	CLEANSORB COLUMNS	765	0.38
014538938FLE	4/17/2020	DECANT PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01
001508970VES	4/20/2020	692208	SOLVENT, CORROSIVE - FAB 11 (D002)	41660	20.83
013211220FLE	4/20/2020	DECANT AD10	AD10 Decant Totes	16	0.01
014538939FLE	4/20/2020	Decant PGMEA-PM	Decant Drum PGMEA - PM Acetate	20	0.01
014539334FLE	4/20/2020	Decant PBR-40	Decant Drum PBR 800	22	0.01
014539341FLE	4/20/2020	DECANT OPD4262	Decant OPD4262	132	0.07
013211166FLE	4/23/2020	DECANT PK-HUZ	Decant PK-HUZ	31	0.02
014537851FLE	4/23/2020	Decant KOH 10%	Decant Drum Potassium Hydroxide 10%	12	0.01
014539342FLE	4/23/2020	DECANT OPD4262	Decant OPD4262	66	0.03
014538940FLE	4/24/2020	DECANT PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01
001508971VES	4/27/2020	692208	SOLVENT, CORROSIVE - FAB 11 (D002)	35620	17.81
014538941FLE	4/27/2020	Decant PGMEA-PM	Decant Drum PGMEA - PM Acetate	20	0.01
014539343FLE	4/27/2020	DECANT OPD4262	Decant OPD4262	99	0.05
014539335FLE	4/28/2020	DECANT PBR-40	Decant Drum PBR 800	11	0.01
014539344FLE	4/28/2020	DECANT OPD4262	Decant OPD4262	33	0.02
011248260FLE	4/29/2020	DECANCMPCLEA NBG	Decant Drum CMP Cleaner BG1	10	0.01
014539336FLE	4/29/2020	Decant PBR-40	Decant Drum PBR 800	11	0.01
019447885JJJ	4/29/2020	7919597	WXSCH4200SNDFFR	1430	0.72
014539345FLE	4/30/2020	DECANT OPD4262	Decant OPD4262	33	0.02
014537852FLE	5/1/2020	Decant KOH 10%	Decant Drum Potassium Hydroxide 10%	12	0.01
014538942FLE	5/1/2020	DECANT PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01
014539346FLE	5/1/2020	DECANT OPD4262	Decant OPD4262	33	0.02
014538943FLE	5/4/2020	Decant PGMEA-PM	Decant Drum PGMEA - PM Acetate	20	0.01
014539337FLE	5/4/2020	Decant PBR-40	Decant Drum PBR 800	11	0.01
014539347FLE	5/4/2020	DECANT OPD4262	Decant OPD4262	66	0.03
014539348FLE	5/5/2020	DECANT OPD4262	Decant OPD4262	66	0.03
001855558VES	5/6/2020	256683	CLEANSORB COLUMNS	765	0.38
001855522VES	5/7/2020	692208	SOLVENT, CORROSIVE - FAB 11 (D002)	42060	21.03
014537853FLE	5/8/2020	DECANT KOH 10%	Decant Drum Potassium Hydroxide 10%	12	0.01

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Shipping Doc. Number	Ship Date	Profile Number	Waste Name	Quantity (lbs)	Quantity (tons)
014538944FLE	5/8/2020	DECANT PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01
014539349FLE	5/8/2020	DECANT OPD4262	Decant OPD4262	66	0.03
001855517VES	5/11/2020	448115	SOLVENT, GENERAL FAB 11S	40040	20.02
013211167FLE	5/11/2020	DECANT PK-HUZ	Decant PK-HUZ	31	0.02
013211221FLE	5/11/2020	DECANT AD10	AD10 Decant Totes	16	0.01
014538945FLE	5/11/2020	DECANT PGMEA-PM	Decant Drum PGMEA - PM Acetate	20	0.01
014539338FLE	5/11/2020	Decant PBR-40	Decant Drum PBR 800	11	0.01
014539350FLE	5/11/2020	DECANT OPD4262	Decant OPD4262	66	0.03
014539351FLE	5/12/2020	DECANT OPD4262	Decant OPD4262	66	0.03
019447886JJK	5/13/2020	7919597	WXSCH4200SNDFR	1575	0.79
001855523VES	5/14/2020	692208	SOLVENT, CORROSIVE - FAB 11 (D002)	35760	17.88
014538946FLE	5/14/2020	DECANT PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01
014539352FLE	5/15/2020	DECANT OPD4262	Decant OPD4262	66	0.03
014537854FLE	5/18/2020	Decant KOH 10%	Decant Drum Potassium Hydroxide 10%	12	0.01
014538211FLE	5/18/2020	Decant PBR-40	Decant Drum PBR 800	22	0.01
014538221FLE	5/18/2020	DECANT OPD4262	Decant OPD4262	66	0.03
014538947FLE	5/18/2020	Decant PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01
014537857FLE	5/19/2020	DECANT PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01
014538222FLE	5/19/2020	DECANT OPD4262	Decant OPD4262	66	0.03
014537858FLE	5/20/2020	DECANT PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01
013211168FLE	5/21/2020	DECANT PK-HUZ	Decant PK-HUZ	31	0.02
001855524VES	5/22/2020	692208	SOLVENT, CORROSIVE - FAB 11 (D002)	33200	16.60
014538223FLE	5/22/2020	DECANT OPD4262	Decant OPD4262	66	0.03
014537855FLE	5/26/2020	Decant KOH 10%	Decant Drum Potassium Hydroxide 10%	12	0.01
014537859FLE	5/26/2020	Decant PGMEA-PM	Decant Drum PGMEA - PM Acetate	20	0.01
014538212FLE	5/26/2020	Decant PBR-40	Decant Drum PBR 800	22	0.01
014538224FLE	5/26/2020	DECANT OPD4262	Decant OPD4262	99	0.05
011248261FLE	5/27/2020	DecanCMPCleanBG	Decant Drum CMP Cleaner BG1	10	0.01
014537860FLE	5/27/2020	DECANT PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01
014538225FLE	5/27/2020	DECANT OPD4262	Decant OPD4262	66	0.03
014538226FLE	5/29/2020	DECANT OPD4262	Decant OPD4262	66	0.03
001855525VES	6/1/2020	692208	SOLVENT, CORROSIVE - FAB 11 (D002)	38080	19.04

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Shipping Doc. Number	Ship Date	Profile Number	Waste Name	Quantity (lbs)	Quantity (tons)
001855525VES	6/1/2020	692208	SOLVENT, CORROSIVE - FAB 11 (D002)	38080	19.04
014159286FLE	6/1/2020	Decant KOH 10%	Decant Drum Potassium Hydroxide 10%	12	0.01
014538213FLE	6/1/2020	Decant PBR-40	Decant Drum PBR 800	11	0.01
014538227FLE	6/1/2020	DECANT OPD4262	Decant OPD4262	396	0.20
014539384FLE	6/1/2020	Decant PGMEA-PM	Decant Drum PGMEA - PM Acetate	20	0.01
013211222FLE	6/2/2020	DECANT AD10	AD10 Decant Totes	16	0.01
014538229FLE	6/2/2020	DECANT OPD4262	Decant OPD4262	66	0.03
014539385FLE	6/3/2020	DECANT PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01
001855518VES	6/4/2020	448115	SOLVENT, GENERAL FAB 11S	37760	18.88
014538230FLE	6/4/2020	DECANT OPD4262	Decant OPD4262	66	0.03
014539353FLE	6/5/2020	DECANT OPD4262	Decant OPD4262	33	0.02
001855526VES	6/8/2020	692208	SOLVENT, CORROSIVE - FAB 11 (D002)	30560	15.28
014159287FLE	6/8/2020	Decant KOH 10%	Decant Drum Potassium Hydroxide 10%	12	0.01
014538214FLE	6/8/2020	Decant PBR-40	Decant Drum PBR 800	11	0.01
014538972FLE	6/8/2020	DECANT HCL37%	Decant HCl37%	76	0.04
014539354FLE	6/8/2020	DECANT OPD4262	Decant OPD4262	132	0.07
014539386FLE	6/8/2020	Decant PGMEA-PM	Decant Drum PGMEA - PM Acetate	20	0.01
014538215FLE	6/9/2020	Decant PBR-40	Decant Drum PBR 800	11	0.01
014538973FLE	6/9/2020	DECANT HCL37%	Decant HCl37%	38	0.02
014539355FLE	6/10/2020	DECANT OPD4262	Decant OPD4262	33	0.02
014539387FLE	6/10/2020	DECANT PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01
014538974FLE	6/11/2020	DECANT HCL37%	Decant HCl37%	38	0.02
014539356FLE	6/11/2020	DECANT OPD4262	Decant OPD4262	66	0.03
014539388FLE	6/11/2020	DECANT PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01
013211169FLE	6/15/2020	DECANT PK-HUZ	Decant PK-HUZ	31	0.02
014538216FLE	6/15/2020	DECANT PBR-40	Decant Drum PBR 800	11	0.01
014538975FLE	6/15/2020	DECANT HCL37%	Decant HCl37%	76	0.04
014539358FLE	6/15/2020	DECANT OPD4262	Decant OPD4262	99	0.05
014539389FLE	6/15/2020	Decant PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01
014159288FLE	6/16/2020	Decant KOH 10%	Decant Drum Potassium Hydroxide 10%	12	0.01
014538976FLE	6/16/2020	DECANT HCL37%	Decant HCl37%	38	0.02
83849	6/16/2020	699552	RESIN (AMBERJET 1500 H & IRC86)	1940	0.97
014538977FLE	6/17/2020	DECANT HCL37%	Decant HCl37%	38	0.02

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Shipping Doc. Number	Ship Date	Profile Number	Waste Name	Quantity (lbs)	Quantity (tons)
014539390FLE	6/17/2020	Decant PGMEA-PM	Decant Drum PGMEA - PM Acetate	20	0.01
014539820FLE	6/17/2020	DECANT OPD4262	Decant OPD4262	33	0.02
001855527VES	6/18/2020	692208	SOLVENT, CORROSIVE - FAB 11 (D002)	40460	20.23
014539821FLE	6/18/2020	DECANT OPD4262	Decant OPD4262	66	0.03
014539822FLE	6/19/2020	DECANT OPD4262	Decant OPD4262	33	0.02
001855519VES	6/22/2020	448115	SOLVENT, GENERAL FAB 11S	39460	19.73
013211223FLE	6/22/2020	DECANT AD10	AD10 Decant Totes	16	0.01
014538217FLE	6/22/2020	Decant PBR-40	Decant Drum PBR 800	21	0.01
014538978FLE	6/22/2020	DECANT HCL37%	Decant HCl37%	76	0.04
014539391FLE	6/22/2020	DECANT PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01
014539823FLE	6/22/2020	DECANT OPD4262	Decant OPD4262	66	0.03
014539359FLE	6/23/2020	DECANT HCL37%	Decant HCl37%	38	0.02
014539392FLE	6/23/2020	Decant PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01
014539824FLE	6/23/2020	DECANT OPD4262	Decant OPD4262	33	0.02
014539393FLE	6/24/2020	DECANT PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01
019447887JJK	6/24/2020	7919597	WXSCH4200SNDFR	1576	0.79
019447887JJK	6/24/2020	9919333	WXCEN4200SWND	3339	1.67
001855567VES	6/25/2020	692208	SOLVENT, CORROSIVE - FAB 11 (D002)	31340	15.67
014539360FLE	6/25/2020	DECANT HCL37%	Decant HCl37%	38	0.02
014539826FLE	6/25/2020	DECANT OPD4262	Decant OPD4262	33	0.02
014159289FLE	6/25/2020	Decant KOH 10%	Decant Drum Potassium Hydroxide 10%	12	0.01
014538231FLE	6/26/2020	Decant PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01
014539825FLE	6/24/2020	DECANT OPD4262	Decant OPD4262	33	0.02
014539827FLE	6/26/2020	DECANT OPD4262	Decant OPD4262	33	0.02
013211170FLE	6/29/2020	DECANT PK-HUZ	Decant PK-HUZ	31	0.02
014538218FLE	6/29/2020	Decant PBR-40	Decant Drum PBR 800	11	0.01
014538232FLE	6/29/2020	DECANT PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01
014539361FLE	6/29/2020	DECANT HCL37%	Decant HCl37%	38	0.02
014539828FLE	6/29/2020	DECANT OPD4262	Decant OPD4262	66	0.03
014538233FLE	6/30/2020	DECANT PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01
014539362FLE	6/30/2020	DECANT HCL37%	Decant HCl37%	76	0.04
014539829FLE	6/30/2020	DECANT OPD4262	Decant OPD4262	33	0.02

ENDORSEMENT PH3

2021A pH MONITORING

COMPLIANCE REQUIREMENT: The Permittee is required to maintain a system to monitor the pH of the effluent from each acid waste neutralization unit continuously. This monitoring is required for information purposes only. The Permittee is required to maintain a system to monitor the pH of the effluent from the site outfall continuously. Compliance with the pH limit this permit will be determined at the designated sampling point at the site outfall.

MONITORING REQUIREMENT: See above.

REPORTING REQUIREMENT: The Permittee shall notify the Industrial Waste Engineer within 24 hours of becoming aware of a pH excursion at the Site Vault lasting more than 60 minutes including circumstances and corrective action taken.

The Permittee shall include with each semi-annual report, the results of pH monitoring conducted at the permit sample point during the reporting period. Results reported must include:

- 1) Daily maximum and time of occurrence.
- 2) Daily minimum and time of occurrence.
- 3) Duration in minutes of each individual excursion above or below limits set in this permit. Limits are those stated in the Ordinance unless otherwise noted.

As noted in 40 CFR 401.17

- 1) The total time during which the pH values are outside the required range of pH values shall not exceed seven (7) hours and 26 minutes in any calendar month.
- 2) No individual excursion from the range of pH values shall exceed 60 minutes.

CONTINUOUS pH MONITORING REPORT

January 2020– February 2020

Site Outfall Daily Minimum and Maximum pH Report									
Date	Minimum pH	Duration Out of Range (min)	Maximum pH	Duration Out of Range (min)	Date	Minimum pH	Duration Out of Range (min)	Maximum pH	Duration Out of Range (min)
1/1/2020	5.85	0.00	9.50	0.00	2/1/2020	6.80	0.00	9.80	0.00
1/2/2020	5.70	0.00	9.65	0.00	2/2/2020	6.92	0.00	9.66	0.00
1/3/2020	6.34	0.00	9.46	0.00	2/3/2020	6.77	0.00	9.39	0.00
1/4/2020	6.05	0.00	9.42	0.00	2/4/2020	6.68	0.00	9.43	0.00
1/5/2020	6.03	0.00	8.81	0.00	2/5/2020	6.48	0.00	10.25	0.00
1/6/2020	6.10	0.00	8.69	0.00	2/6/2020	6.90	0.00	9.70	0.00
1/7/2020	5.95	0.00	9.34	0.00	2/7/2020	6.81	0.00	10.24	0.00
1/8/2020	6.32	0.00	9.07	0.00	2/8/2020	6.86	0.00	10.51	0.00
1/9/2020	6.51	0.00	10.12	0.00	2/9/2020	6.88	0.00	10.26	0.00
1/10/2020	6.74	0.00	10.04	0.00	2/10/2020	6.92	0.00	9.62	0.00
1/11/2020	6.45	0.00	10.00	0.00	2/11/2020	6.88	0.00	9.35	0.00
1/12/2020	6.40	0.00	10.02	0.00	2/12/2020	6.78	0.00	10.28	0.00
1/13/2020	6.46	0.00	9.85	0.00	2/13/2020	7.06	0.00	10.34	0.00
1/14/2020	6.54	0.00	9.90	0.00	2/14/2020	6.96	0.00	9.94	0.00
1/15/2020	6.71	0.00	9.92	0.00	2/15/2020	6.82	0.00	9.77	0.00
1/16/2020	6.71	0.00	9.79	0.00	2/16/2020	6.75	0.00	10.50	0.00
1/17/2020	6.62	0.00	10.28	0.00	2/17/2020	6.76	0.00	9.50	0.00
1/18/2020	6.57	0.00	10.48	0.00	2/18/2020	6.73	0.00	8.96	0.00
1/19/2020	6.71	0.00	9.22	0.00	2/19/2020	6.78	0.00	10.10	0.00
1/20/2020	6.72	0.00	10.68	0.00	2/20/2020	6.61	0.00	10.14	0.00
1/21/2020	6.65	0.00	10.27	0.00	2/21/2020	6.56	0.00	10.12	0.00
1/22/2020	6.93	0.00	10.69	0.00	2/22/2020	6.58	0.00	9.71	0.00
1/23/2020	6.82	0.00	9.47	0.00	2/23/2020	6.43	0.00	9.19	0.00
1/24/2020	6.75	0.00	10.36	0.00	2/24/2020	6.80	0.00	9.94	0.00
1/25/2020	6.43	0.00	10.10	0.00	2/25/2020	6.76	0.00	9.91	0.00
1/26/2020	6.89	0.00	9.87	0.00	2/26/2020	6.53	0.00	9.27	0.00
1/27/2020	6.85	0.00	9.75	0.00	2/27/2020	6.51	0.00	9.86	0.00
1/28/2020	6.67	0.00	9.46	0.00	2/28/2020	6.59	0.00	9.46	0.00
1/29/2020	6.51	0.00	9.28	0.00	2/29/2020	6.61	0.00	9.87	0.00
1/30/2020	6.61	0.00	10.05	0.00					
1/31/2020	7.10	0.00	10.68	0.00					
Total Time pH Out of Range:				0	Total Time pH Out of Range:				0

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March 2020 – April 2020

Site Outfall Daily Minimum and Maximum pH Report									
Date	Minimum pH	Duration Out of Range (min)	Maximum pH	Duration Out of Range (min)	Date	Minimum pH	Duration Out of Range (min)	Maximum pH	Duration Out of Range (min)
3/1/2020	6.36	0.00	9.81	0.00	4/1/2020	6.56	0.00	10.52	0.00
3/2/2020	6.83	0.00	10.37	0.00	4/2/2020	5.41	0.00	9.47	0.00
3/3/2020	6.75	0.00	9.57	0.00	4/3/2020	6.72	0.00	9.97	0.00
3/4/2020	6.15	0.00	9.49	0.00	4/4/2020	6.67	0.00	9.90	0.00
3/5/2020	6.55	0.00	9.98	0.00	4/5/2020	6.62	0.00	10.01	0.00
3/6/2020	6.54	0.00	9.40	0.00	4/6/2020	6.52	0.00	9.41	0.00
3/7/2020	6.32	0.00	9.65	0.00	4/7/2020	6.36	0.00	9.57	0.00
3/8/2020	6.22	0.00	9.68	0.00	4/8/2020	6.50	0.00	9.38	0.00
3/9/2020	6.52	0.00	9.34	0.00	4/9/2020	6.54	0.00	10.39	0.00
3/10/2020	6.59	0.00	10.25	0.00	4/10/2020	6.68	0.00	10.10	0.00
3/11/2020	6.56	0.00	9.27	0.00	4/11/2020	6.63	0.00	10.32	0.00
3/12/2020	6.46	0.00	9.01	0.00	4/12/2020	6.58	0.00	9.36	0.00
3/13/2020	6.63	0.00	10.12	0.00	4/13/2020	6.52	0.00	9.91	0.00
3/14/2020	6.57	0.00	9.79	0.00	4/14/2020	6.71	0.00	10.03	0.00
3/15/2020	6.69	0.00	9.66	0.00	4/15/2020	6.34	0.00	10.19	0.00
3/16/2020	6.61	0.00	9.23	0.00	4/16/2020	6.29	0.00	9.28	0.00
3/17/2020	6.47	0.00	10.34	0.00	4/17/2020	6.56	0.00	9.10	0.00
3/18/2020	6.73	0.00	10.10	0.00	4/18/2020	6.61	0.00	10.06	0.00
3/19/2020	6.45	0.00	9.66	0.00	4/19/2020	6.57	0.00	9.98	0.00
3/20/2020	6.70	0.00	8.86	0.00	4/20/2020	6.74	0.00	9.95	0.00
3/21/2020	6.75	0.00	9.98	0.00	4/21/2020	6.46	0.00	10.20	0.00
3/22/2020	6.64	0.00	10.22	0.00	4/22/2020	6.76	0.00	10.28	0.00
3/23/2020	6.59	0.00	9.84	0.00	4/23/2020	6.51	0.00	9.38	0.00
3/24/2020	6.41	0.00	9.44	0.00	4/24/2020	6.38	0.00	10.00	0.00
3/25/2020	6.79	0.00	9.80	0.00	4/25/2020	6.54	0.00	8.96	0.00
3/26/2020	6.65	0.00	9.81	0.00	4/26/2020	6.51	0.00	9.12	0.00
3/27/2020	6.64	0.00	10.14	0.00	4/27/2020	6.40	0.00	9.31	0.00
3/28/2020	6.82	0.00	10.15	0.00	4/28/2020	6.54	0.00	9.56	0.00
3/29/2020	6.72	0.00	9.97	0.00	4/29/2020	5.97	0.00	9.89	0.00
3/30/2020	6.64	0.00	9.96	0.00	4/30/2020	6.40	0.00	9.99	0.00
3/31/2020	6.89	0.00	10.0068378	0.00					
Total Time pH Out of Range:				0	Total Time pH Out of Range:				0

Intel Semi-Annual Wastewater Report | H1 2020

June 2020 – July 2020

Site Outfall Daily Minimum and Maximum pH Report									
Date	Minimum pH	Duration Out of Range (min)	Maximum pH	Duration Out of Range (min)	Date	Minimum pH	Duration Out of Range (min)	Maximum pH	Duration Out of Range (min)
5/1/2020	6.37	0.00	10.13	0.00	6/1/2020	6.32	0.00	9.75	0.00
5/2/2020	6.41	0.00	9.62	0.00	6/2/2020	6.19	0.00	9.60	0.00
5/3/2020	6.51	0.00	9.77	0.00	6/3/2020	6.13	0.00	9.26	0.00
5/4/2020	6.73	0.00	9.94	0.00	6/4/2020	6.12	0.00	8.62	0.00
5/5/2020	6.68	0.00	9.58	0.00	6/5/2020	6.36	0.00	10.26	0.00
5/6/2020	6.56	0.00	9.92	0.00	6/6/2020	6.48	0.00	10.15	0.00
5/7/2020	6.62	0.00	9.13	0.00	6/7/2020	6.58	0.00	9.85	0.00
5/8/2020	5.75	0.00	9.93	0.00	6/8/2020	6.60	0.00	9.35	0.00
5/9/2020	6.56	0.00	10.12	0.00	6/9/2020	6.21	0.00	9.31	0.00
5/10/2020	6.60	0.00	9.61	0.00	6/10/2020	6.48	0.00	9.19	0.00
5/11/2020	6.59	0.00	9.72	0.00	6/11/2020	6.45	0.00	9.63	0.00
5/12/2020	6.47	0.00	9.89	0.00	6/12/2020	6.57	0.00	9.73	0.00
5/13/2020	6.24	0.00	9.75	0.00	6/13/2020	6.54	0.00	9.76	0.00
5/14/2020	6.08	0.00	10.12	0.00	6/14/2020	6.48	0.00	9.77	0.00
5/15/2020	6.62	0.00	8.91	0.00	6/15/2020	6.29	0.00	8.19	0.00
5/16/2020	6.60	0.00	9.82	0.00	6/16/2020	6.28	0.00	9.36	0.00
5/17/2020	6.52	0.00	9.54	0.00	6/17/2020	6.64	0.00	9.58	0.00
5/18/2020	6.38	0.00	9.01	0.00	6/18/2020	6.26	0.00	9.65	0.00
5/19/2020	6.28	0.00	9.58	0.00	6/19/2020	6.31	0.00	9.78	0.00
5/20/2020	6.33	0.00	9.17	0.00	6/20/2020	6.43	0.00	9.70	0.00
5/21/2020	6.23	0.00	9.25	0.00	6/21/2020	6.55	0.00	10.03	0.00
5/22/2020	6.46	0.00	9.64	0.00	6/22/2020	6.55	0.00	9.90	0.00
5/23/2020	5.81	0.00	9.53	0.00	6/23/2020	6.40	0.00	8.76	0.00
5/24/2020	6.50	0.00	9.39	0.00	6/24/2020	6.39	0.00	9.65	0.00
5/25/2020	6.49	0.00	9.84	0.00	6/25/2020	6.41	0.00	9.08	0.00
5/26/2020	6.47	0.00	9.53	0.00	6/26/2020	6.41	0.00	9.38	0.00
5/27/2020	6.40	0.00	9.48	0.00	6/27/2020	6.37	0.00	9.38	0.00
5/28/2020	6.43	0.00	9.93	0.00	6/28/2020	6.44	0.00	9.47	0.00
5/29/2020	6.82	0.00	9.71	0.00	6/29/2020	6.43	0.00	9.39	0.00
5/30/2020	6.63	0.00	9.97	0.00	6/30/2020	6.55	0.00	9.87	0.00
5/31/2020	6.33	0.00	10.11	0.00					
Total Time pH Out of Range:				0	Total Time pH Out of Range:				0

ENDORSEMENT RC

REPORTING CERTIFICATION

COMPLIANCE REQUIREMENT: The Permittee is required to certify all materials and information submitted with semi-annual reports is accurate and complete.

MONITORING REQUIREMENT: None

REPORTING REQUIREMENT: The Permittee must complete, sign and submit the Reporting Certification (shown below) with each semi-annual report.

* * * * *

REPORTING CERTIFICATION

Facility Name: Intel Corporation

Permit Number: 2021A

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for known violations.

(Signature)



Authorized Representative

7/29/2020
Date

ENDORSEMENT SWSP

SPECIAL WASTESTREAM POLLUTANT LIMITATIONS FOR PERMIT 2021A

COMPLIANCE REQUIREMENT: The concentration of the following pollutants at the permitted sampling point shall not exceed the discharge limits below:

POLLUTANT	MAXIMUM FOR ANY 1 DAY
Indium	0.30 mg/l
Gallium	See Schedule Below

Pollutant	Maximum For Any 1-Day	Monthly Average	Monitoring Frequency
Ammonia	5,418 lbs/day	2,200 lbs/day	Weekly*
Indium	0.30 mg/L	n/a	Semi-Annually**
Gallium	3.125 mg/L	n/a	Semi-Annually**
Platinum	0.10 mg/L	n/a	Semi-Annually**

MONITORING REQUIREMENT: *Ammonia: The permittee is required to sample the site discharge weekly (once per week) using Hach method 10031, or another method approved by the Industrial Pretreatment Engineer/Program (Pretreatment). **Indium, Gallium, and Platinum: The permittee is required to sample the site discharge semi-annually. Each semi-annual monitoring event must be performed four (4) days in a row.

All monitoring must be conducted using a 24 hour composite sampler at the permitted sample point. All analysis shall use 40 CFR 136 EPA approved methods unless approved by Pretreatment. If the EPA method is not applicable, the permittee must submit production values and calculations in each semi-annual report that show the concentrations of the above pollutants at the site outfalls.

Monitoring by the permittee may be increased at the discretion of Pretreatment.

The Water Authority has the option of recouping the costs from the Permittee for Pretreatment sampling.

REPORTING REQUIREMENT: The Permittee shall notify the Industrial Pretreatment Engineer via telephone (505-289-3439) within 12 hours if any Ammonia load is greater than the monthly average limit. If the Industrial Pretreatment Engineer does not answer, the shift supervisor at the SWRP control room shall be notified (505-289-3411). If any other limit is exceeded, follow standard permit reporting requirements.

The Permittee shall report Ammonia monthly results by the 10th of each month.

The Permittee shall report on a semi-annual basis via the Semi-Annual (SA) report all "Special Wastestream Pollutants" in a single report of that title. The report shall:

- Be provided in an excel spreadsheet format with all results, flow and lbs/day load calculated and compared against limits.
- Include all client reports to be in compliance with the SM Endorsement.
- Semi-Annually the Permittee shall conduct accuracy checks per the analytical method and submit the results with each semi-annual report.

In compliance with the Endorsement SWSP reporting requirements, Intel NM submitted Ammonia reports to ABCWUA on 2/05/2020, 3/03/2020, 4/07/2020, 5/07/2020, 6/9/2020 and 7/7/2020 which included Ammonia data collected during the first half of 2020. A summary of Intel NM's analytical method accuracy checks performed during H1 2020 is included on the next page.

Semi-annual sampling for Platinum, Indium and Gallium was conducted from April 20th through April 23rd, 2020. Semi-annual sampling results are attached (Attachment C) for reference.

Requirements of Endorsement SWSP have been met for the reporting period of this Semi-Annual Report.

Date	Ammonia Analytical Accuracy Checks (10 ppm Standard)
1/1/2020	9.5
1/8/2020	10.8
1/16/2020	10.9
1/23/2020	9.5
1/29/2020	9.8
2/5/2020	10.0
2/12/2020	9.3
2/19/2020	9.4
2/26/2020	9.7
3/5/2020	9.1
3/11/2020	10.7
3/18/2020	10.0
3/25/2020	10.1
4/1/2020	10.4
4/8/2020	9.8
4/15/2020	10.1
4/22/2020	9.8
4/29/2020	9.8
5/6/2020	10.0
5/13/2020	9.1
5/20/2020	9.9
5/27/2020	9.3
6/3/2020	10.2
6/10/2020	10.1
6/17/2020	9.1
6/24/2020	10.4

ENDORSEMENT TC3

TOXIC ORGANIC MANAGEMENT PLAN CERTIFICATION STATEMENT

COMPLIANCE REQUIREMENT: The most recent TOXIC ORGANIC (SOLVENT) MANAGEMENT PLAN (TOMP) submitted by the Permittee to the Industrial Waste Engineer remains in effect. The Permittee must notify the Industrial Waste Engineer, in writing, of any changes to the TOMP.

MONITORING REQUIREMENT: None required by the Permittee.

REPORTING REQUIREMENT: The Permittee shall continue to submit a TOXIC ORGANIC MANAGEMENT PLAN CERTIFICATION STATEMENT with each semiannual report. A sample certification statement has been provided below.

* * * *

The Toxic Organic Management Plan (TOMP) was last modified in October 2019 and submitted to ABCWUA at the time of revision. The October 2019 updated version of the TOMP accurately reflects current site operations.

TOXIC ORGANIC MANAGEMENT PLAN CERTIFICATION STATEMENT

Based upon my inquiry of the person or persons directly responsible for managing compliance with the permit limitations [or pretreatment standard] for total toxic organics (TTO), I certify that, to the best of my knowledge and belief, no dumping of concentrated toxic organics into the wastewaters has occurred during this reporting period. I further certify that this facility is implementing the TOXIC ORGANIC MANAGEMENT PLAN (TOMP) submitted to the Industrial Waste Engineer.

Facility Name: Intel Corporation

Permit No.: 2021A

Date: 7/29/2020

Signature: 
Authorized Representative

NM Site Corporate Services
Manager

Pollution Prevention through Source Reduction and Waste Minimization Statement

January 2020 - June 2020

Water Use Reduction Projects:

With Intel's continued growth in 2020, tool installation was tracked to ensure all new tools have an Ultra Pure Water (UPW) return line in efforts to reduce water usage. New tools are also programmed to Ultra Pure Recycle Water if not plumbed to UPW return.

Source Reduction Projects:

None for this time period.

NM Site Recycling:

The Intel New Mexico has a site wide recycling rate goal of 90% that encompasses all waste sources. Efforts in building up to that 90% rate includes rehabbing the site's composting program with re-education to onsite personnel for what waste is appropriate for composting locations available around the site. Intel continues to compost coffee grounds with successful results. Intel is working on a path forward to reintroduce food waste from our kitchen into composting efforts. Our goal is to re-send compost through ABCWUA's vendor when our composting contamination is eliminated from the site.

Calcium fluoride (CaF) sludge, a byproduct of Intel NM's hydrofluoric waste treatment operations, accounts for approximately 97% of the facility's non-hazardous chemical waste. CaF sludge is a useful product for a variety of purposes, including as an additive in cement and ceramic material mixtures. CaF sludge shipments from Intel NM during H1 2020 amounted to approximately 242 tons, 100% of which was recycled. Intel has gone to great lengths to partner with and provide CaF Sludge to a number of industrial users in order to maintain Intel NM's 100% CaF Sludge recycle rate and ensure that none of it goes to waste, even as market demand fluctuates.

ENDORSEMENT WM

POLLUTION PREVENTION THROUGH SOURCE REDUCTION AND WASTE MINIMIZATION

COMPLIANCE REQUIREMENT: Permittees shall endeavor, whenever feasible, to reduce or eliminate otherwise polluting substances in waste stream(s) by source reduction, waste minimization or more effective pretreatment.

MONITORING REQUIREMENT: None required by the Permittee.

REPORTING REQUIREMENTS: The Permittee shall include a narrative statement with each semi-annual report describing any source reduction, waste minimization or pretreatment efforts undertaken during the reporting period. If no such efforts are undertaken, the Permittee shall include a statement to that effect in the report.

Attachments

Attachment A - Intel NM Grease Trap Pumping Manifests – H1 2020

Attachment B - Weekly Cerium Sampling Reports

Attachment C - Semi-Annual Monitoring Analytical Results

Attachment D – Site Outfall Flow Meter Calibration Records

ATTACHMENT A

Intel NM Grease Trap Pumping Manifest – H1 2020

RR5 GREASE TRIP PUMP

AAA PUMPING SERVICE, INC.

P.O. BOX 12186 ALBUQUERQUE, NM 87195
Ph: (505) 345-3965 Fax: (505) 243-0314

DISPOSAL
TRIP MANIFEST
71392

WASTE PRODUCER

PRODUCER'S NAME Intel RRS

PHONE

APPROX. GALLONS

DATE OF COLLECTION

ADDRESS 4100 Santa Rd

WASTE TYPE:

CITY Rio Rancho

STATE NM ZIP

☐ SAND OR GRIT

☒ GREASE

RESPON. PERSON X [Signature]

DATE 11/3/20

☐ OTHER - DESCRIBE

WASTE TRANSPORTER

TRUCK DRIVER'S SIGNATURE X [Signature]

DATE 11/3/20

PERMIT NO. P1

DISPOSAL SITE

AAA Pumping Service Inc
2855 2nd st sw
Albuquerque, NM 87102

MANIFEST MUST BE KEPT ON
PREMISES TO SHOW PROOF OF
PUMPING & LEGAL WASTE DISPOSAL

Responsible person signing for Waste Producer certifies that there is nothing hazardous in the materials being pumped. AAA PUMPING SERVICE, INC. reserves the right to file legal action against the Waste Producer for falsification of information.

Inspection Date <u>1-3-20</u> Service Date <u>1-3-20</u> Technician/Company <u>BILLY HARRIS / AAA Pumping</u>		Comments
RR5 Grease Trap		
Depth of water column in grease trap :		
Trap by Pot Wash <input checked="" type="checkbox"/> 20"		
Trap Under Table <input type="checkbox"/> 20"		
Trap by Office <input type="checkbox"/> 15"		
Trap by Coffee Area, NW <input type="checkbox"/> 15"	Inches	
Depth of FOG (fats, oils, grease)	4 Inches	
Depth of Solids	2.5 Inches	
Is the accumulated FOG and solids occupying greater than 25% of the grease trap capacity	Yes/No	4 INCHES = OIL WAS DOWN FROM USUAL 6" TO BRINE DOWN SOLIDS TOTAL
Prior to opening is odor from the grease trap present 10' or greater?	Yes/No	
Are the access covers in need of repair?	Yes/No	
FOG Passing by grease trap?	Yes/No	
Does grease trap need trap repair?	Yes/No	
Are there signs the grease trap walls may be deteriorating?	Yes/No	
Are there signs the grease trap may be leaking?	Yes/No	
Was the grease trap pressure washed?	Yes/No	
Inlet Tee, Baffle Wall Elbow and Outlet Tee pressure washed?	Yes/No	
Is there any leakage under the baffle wall?	Yes/No	
Was all grease removed from walls, ledges and ridges?	Yes/No	
Total Gallons pumped out:	50	
Location where grease was disposed of:	AAA	PUMPING TRUCK - RECYCLED

D.T.M. # 71392

Rio Rancho Grease Removal Device Report

Inspection Date	Service Date	Technician/Company	Comments
RR5 Grease Trap			
Depth of water column in grease trap :			
Trap by Pot Wash [], 20"	-		
Trap Under Table [X], 20"	-		
Trap by Office [], 15"	-		
Trap by Coffee Area, NW [], 15"	Inches		
Depth of FOG (fats, oils, grease)	1/2 Inches		
Depth of Solids	1/8 Inches		
Is the accumulated FOG and solids occupying greater than 25% of the grease trap capacity	Yes/No		
Prior to opening is odor from the grease trap present 10' or greater?	Yes/No		
Are the access covers in need of repair?	Yes/No		
FOG Passing by grease trap?	Yes/No		
Does grease trap need trap repair?	Yes/No		
Are there signs the grease trap walls may be deteriorating?	Yes/No		
Are there signs the grease trap may be leaking?	Yes/No		
Was the grease trap pressure washed?	Yes/No		
Inlet Tee, Baffle Wall Elbow and Outlet Tee pressure washed?	Yes/No		
Is there any leakage under the baffle wall?	Yes/No		
Was all grease removed from walls, ledges and ridges?	Yes/No		
Total Gallons pumped out:	50		
Location where grease was disposed of:	AAA	PUMPING TRUCK - RECYCLED	

D.T.M. \$71392

Rio Rancho Grease Removal Device Report

Inspection Date	Service Date	Technician/Company	Comments
RR5 Grease Trap			
Depth of water column in grease trap :			
Trap by Pot Wash [], 20"	-		
Trap Under Table [], 20"	-		
Trap by Office [X], 15"	-		
Trap by Coffee Area, NW [], 15"	Inches		
Depth of FOG (fats, oils, grease)	1 1/2 Inches		
Depth of Solids	1/8 Inches		
Is the accumulated FOG and solids occupying greater than 25% of the grease trap capacity	Yes/No		
Prior to opening is odor from the grease trap present 10' or greater?	Yes/No		
Are the access covers in need of repair?	Yes/No		
FOG Passing by grease trap?	Yes/No		
Does grease trap need trap repair?	Yes/No		
Are there signs the grease trap walls may be deteriorating?	Yes/No		
Are there signs the grease trap may be leaking?	Yes/No		
Was the grease trap pressure washed?	Yes/No		
Inlet Tee, Baffle Wall Elbow and Outlet Tee pressure washed?	Yes/No		
Is there any leakage under the baffle wall?	Yes/No		
Was all grease removed from walls, ledges and ridges?	Yes/No		
Total Gallons pumped out:	20		
Location where grease was disposed of:	AAA	PUMPING YARD - RECYCLED	

D.T.M. # 11392

Rio Rancho Grease Removal Device Report

Inspection Date	Service Date	Technician/Company	Comments
RR5 Grease Trap			
Depth of water column in grease trap :			
Trap by Pot Wash [], 20"	-		
Trap Under Table [], 20"	-		
Trap by Office [], 15"	-		
Trap by Coffee Area, NW [X], 15"	Inches		
Depth of FOG (fats, oils, grease)	0 Inches		
Depth of Solids	1/2 Inches	COFFEE	
Is the accumulated FOG and solids occupying greater than 25% of the grease trap capacity	Yes/No		
Prior to opening is odor from the grease trap present 10' or greater?	Yes/No		
Are the access covers in need of repair?	Yes/No		
FOG Passing by grease trap?	Yes/No		
Does grease trap need trap repair?	Yes/No		
Are there signs the grease trap walls may be deteriorating?	Yes/No		
Are there signs the grease trap may be leaking?	Yes/No		
Was the grease trap pressure washed?	Yes/No		
Inlet Tee, Baffle Wall Elbow and Outlet Tee pressure washed?	Yes/No		
Is there any leakage under the baffle wall?	Yes/No		
Was all grease removed from walls, ledges and ridges?	Yes/No		
Total Gallons pumped out:	20		
Location where grease was disposed of:	AAA	PUMPING YARD - RECYCLED	

RR5 GREASE TRAP Pump

AAA PUMPING SERVICE, INC.

P.O. BOX 12186 ALBUQUERQUE, NM 87195
Ph: (505) 345-3965 Fax: (505) 243-0314

DISPOSAL
TRIP MANIFEST
71453

WASTE PRODUCER

PRODUCER'S NAME Intel RLS PHONE _____ APPROX. GALLONS 150 DATE OF COLLECTION 11/17/20

ADDRESS 4100 Sara Rd WASTE TYPE: ☐ SAND OR GRIT ☒ GREASE

CITY Kio Ranch STATE NM ZIP _____

RESPON. PERSON X [Signature] DATE 11/17/20 ☐ OTHER - DESCRIBE _____

WASTE TRANSPORTER

TRUCK DRIVER'S SIGNATURE X [Signature] DATE 11/17/20 PERMIT NO. 491

DISPOSAL SITE

AAA Pumping Service Inc
2855 2nd st sw
Albuquerque, NM 87102

MANIFEST MUST BE KEPT ON
PREMISES TO SHOW PROOF OF
PUMPING & LEGAL WASTE DISPOSAL

Responsible person signing for Waste Producer certifies that there is nothing hazardous in the materials being pumped. AAA PUMPING SERVICE, INC. reserves the right to file legal action against the Waste Producer for falsification of information.

Inspection Date <u>1-17-2020</u> Service Date <u>1-17-2020</u> Technician/Company <u>Billy Harris</u>		Comments
RR5 Grease Trap		
Depth of water column in grease trap :		
Trap by Pot Wash <input checked="" type="checkbox"/> , 20"		
Trap Under Table <input type="checkbox"/> , 20"		
Trap by Office <input type="checkbox"/> , 15"		
Trap by Coffee Area, NW <input type="checkbox"/> , 15"	Inches	
Depth of FOG (fats, oils, grease)	4.5 Inches	
Depth of Solids	3 Inches	
Is the accumulated FOG and solids occupying greater than 25% of the grease trap capacity	Yes/No	
Prior to opening is odor from the grease trap present 10' or greater?	Yes/No	
Are the access covers in need of repair?	Yes/No	
FOG Passing by grease trap?	Yes/No	
Does grease trap need trap repair?	Yes/No	
Are there signs the grease trap walls may be deteriorating?	Yes/No	
Are there signs the grease trap may be leaking?	Yes/No	
Was the grease trap pressure washed?	Yes/No	
Inlet Tee, Baffle Wall Elbow and Outlet Tee pressure washed?	Yes/No	
Is there any leakage under the baffle wall?	Yes/No	
Was all grease removed from walls, ledges and ridges?	Yes/No	
Total Gallons pumped out:	50	
Location where grease was disposed of:	AAA Pumping Yard - RECYCLED	

D.T.M. # 71453

Rio Rancho Grease Removal Device Report

Inspection Date	Service Date	Technician/Company	Comments
RR5 Grease Trap			
Depth of water column in grease trap :			
Trap by Pot Wash [], 20"	-		
Trap Under Table [X], 20"	-		
Trap by Office [], 15"	-		
Trap by Coffee Area, NW [], 15"	Inches		
Depth of FOG (fats, oils, grease)	1/4 Inches		
Depth of Solids	1/8 Inches		
Is the accumulated FOG and solids occupying greater than 25% of the grease trap capacity	Yes/No		
Prior to opening is odor from the grease trap present 10' or greater?	Yes/No		
Are the access covers in need of repair?	Yes/No		
FOG Passing by grease trap?	Yes/No		
Does grease trap need trap repair?	Yes/No		
Are there signs the grease trap walls may be deteriorating?	Yes/No		
Are there signs the grease trap may be leaking?	Yes/No		
Was the grease trap pressure washed?	Yes/No		
Inlet Tee, Baffle Wall Elbow and Outlet Tee pressure washed?	Yes/No		
Is there any leakage under the baffle wall?	Yes/No		
Was all grease removed from walls, ledges and ridges?	(Yes/No)		
Total Gallons pumped out:	50		
Location where grease was disposed of:	AAA PUMPING		
	YARD - RECYCLED		

D. I. M. 71453

Rio Rancho Grease Removal Device Report

Inspection Date <u>1-17-2020</u>	Service Date <u>1-17-2020</u>	Technician/Company <u>BILL HART/AAA Pumping</u>	Comments
RR5 Grease Trap			
Depth of water column in grease trap :			
Trap by Pot Wash [], 20"	-		
Trap Under Table [], 20"	-		
Trap by Office [X], 15"	-		
Trap by Coffee Area, NW [], 15"	Inches		
Depth of FOG (fats, oils, grease)	$\frac{1}{32}$ Inches		
Depth of Solids	$\frac{1}{8}$ Inches		
Is the accumulated FOG and solids occupying greater than 25% of the grease trap capacity	Yes/ No		
Prior to opening is odor from the grease trap present 10' or greater?	Yes/ No		
Are the access covers in need of repair?	Yes/ No		
FOG Passing by grease trap?	Yes/ No		
Does grease trap need trap repair?	Yes/ No		
Are there signs the grease trap walls may be deteriorating?	Yes/ No		
Are there signs the grease trap may be leaking?	Yes/ No		
Was the grease trap pressure washed?	Yes/ No		
Inlet Tee, Baffle Wall Elbow and Outlet Tee pressure washed?	Yes/ No		
Is there any leakage under the baffle wall?	Yes/ No		
Was all grease removed from walls, ledges and ridges?	Yes/ No		
Total Gallons pumped out:	<u>20</u>		
Location where grease was disposed of:	<u>AAA Pumping Yard - RECYCLED</u>		

D.T.M. #71453

Rio Rancho Grease Removal Device Report

Inspection Date <u>1-17-2020</u> Service Date <u>1-17-2020</u> Technician/Company <u>Billy Harris / AAA Pumping</u>		Comments
RR5 Grease Trap		
Depth of water column in grease trap :		
Trap by Pot Wash [], 20"	-	
Trap Under Table [], 20"	-	
Trap by Office [], 15"	-	
Trap by Coffee Area, NW [X], 15"	Inches	
Depth of FOG (fats, oils, grease)	0 Inches	
Depth of Solids	3/4 Inches	
Is the accumulated FOG and solids occupying greater than 25% of the grease trap capacity	Yes/No	
Prior to opening is odor from the grease trap present 10' or greater?	Yes/No	
Are the access covers in need of repair?	Yes/No	
FOG Passing by grease trap?	Yes/No	
Does grease trap need trap repair?	Yes/No	
Are there signs the grease trap walls may be deteriorating?	Yes/No	
Are there signs the grease trap may be leaking?	Yes/No	
Was the grease trap pressure washed?	Yes/No	
Inlet Tee, Baffle Wall Elbow and Outlet Tee pressure washed?	Yes/No	
Is there any leakage under the baffle wall?	Yes/No	
Was all grease removed from walls, ledges and ridges?	Yes/No	
Total Gallons pumped out:	20	
Location where grease was disposed of:	AAA Pumping Yard - RECYCLED	

RRS Grease Trap Pump

AAA PUMPING SERVICE, INC.

P.O. BOX 12186 ALBUQUERQUE, NM 87195
Ph: (505) 345-3965 Fax: (505) 243-0314

DISPOSAL
TRIP MANIFEST
71904

WASTE PRODUCER

PRODUCER'S NAME Fidel RLS PHONE _____ APPROX. GALLONS 150 DATE OF COLLECTION 2/2/20
ADDRESS 4160 Santa Fe WASTE TYPE: ☐ SAND OR GRIT ☒ GREASE
CITY Rio Rancho STATE NM ZIP _____
RESPON. PERSON X [Signature] DATE 2/2/20 ☐ OTHER - DESCRIBE _____

WASTE TRANSPORTER

TRUCK DRIVER'S SIGNATURE X [Signature] DATE 2/2/20 PERMIT NO. 81
DISPOSAL SITE _____

AAA Pumping Service Inc
2855 2nd st sw
Albuquerque, NM 87102

MANIFEST MUST BE KEPT ON
PREMISES TO SHOW PROOF OF
PUMPING & LEGAL WASTE DISPOSAL

Responsible person signing for Waste Producer certifies that there is nothing hazardous in the materials being pumped. AAA PUMPING SERVICE, INC. reserves the right to file legal action against the Waste Producer for falsification of information.

Inspection Date <u>2-7-2020</u> Service Date <u>2-7-2020</u> Technician/Company <u>Billy Harsco AAA Pumping</u>		Comments
RR5 Grease Trap		
Depth of water column in grease trap :		
Trap by Pot Wash <input checked="" type="checkbox"/> , 20"	-	
Trap Under Table <input type="checkbox"/> , 20"	-	
Trap by Office <input type="checkbox"/> , 15"	-	
Trap by Coffee Area, NW <input type="checkbox"/> , 15"	Inches	
Depth of FOG (fats, oils, grease)	7 Inches	
Depth of Solids	2 Inches	
Is the accumulated FOG and solids occupying greater than 25% of the grease trap capacity	Yes/No	
Prior to opening is odor from the grease trap present 10' or greater?	Yes/No	
Are the access covers in need of repair?	Yes/No	
FOG Passing by grease trap?	Yes/No	
Does grease trap need trap repair?	Yes/No	
Are there signs the grease trap walls may be deteriorating?	Yes/No	
Are there signs the grease trap may be leaking?	Yes/No	
Was the grease trap pressure washed?	Yes/No	
Inlet Tee, Baffle Wall Elbow and Outlet Tee pressure washed?	Yes/No	
Is there any leakage under the baffle wall?	Yes/No	
Was all grease removed from walls, ledges and ridges?	Yes/No	
Total Gallons pumped out:	50	
Location where grease was disposed of:	AAA Pumping Yard - RECYCLED	

D.T.M. # 71904

Rio Rancho Grease Removal Device Report

Inspection Date <u>2-7-2020</u> Service Date <u>2-7-2020</u> Technician/Company <u>Billy Harris / AAA Pumping</u>		Comments
RR5 Grease Trap		
Depth of water column in grease trap :		
Trap by Pot Wash <input type="checkbox"/> , 20"	-	
Trap Under Table <input checked="" type="checkbox"/> , 20"	-	
Trap by Office <input type="checkbox"/> , 15"	-	
Trap by Coffee Area, NW <input type="checkbox"/> , 15"	Inches	
Depth of FOG (fats, oils, grease)	1/4 Inches	
Depth of Solids	1/2 Inches	
Is the accumulated FOG and solids occupying greater than 25% of the grease trap capacity	Yes/No	
Prior to opening is odor from the grease trap present 10' or greater?	Yes/No	
Are the access covers in need of repair?	Yes/No	
FOG Passing by grease trap?	Yes/No	
Does grease trap need trap repair?	Yes/No	
Are there signs the grease trap walls may be deteriorating?	Yes/No	
Are there signs the grease trap may be leaking?	Yes/No	
Was the grease trap pressure washed?	Yes/No	
Inlet Tee, Baffle Wall Elbow and Outlet Tee pressure washed?	Yes/No	
Is there any leakage under the baffle wall?	Yes/No	
Was all grease removed from walls, ledges and ridges?	Yes/No	
Total Gallons pumped out:	50	
Location where grease was disposed of:	AAA	PUMPING TRAP - RECYCLED

D.T.M. # 71904

Rio Rancho Grease Removal Device Report

Inspection Date <u>2-7-2020</u> Service Date <u>2-7-2020</u> Technician/Company <u>Billy Harris / AAA Pumping</u>		Comments
RR5 Grease Trap		
Depth of water column in grease trap :		
Trap by Pot Wash [], 20"	-	
Trap Under Table [], 20"	-	
Trap by Office [X], 15"	-	
Trap by Coffee Area, NW [], 15"	Inches	
Depth of FOG (fats, oils, grease)	$\frac{1}{32}$ Inches	
Depth of Solids	$\frac{1}{2}$ Inches	
Is the accumulated FOG and solids occupying greater than 25% of the grease trap capacity	Yes/No	
Prior to opening is odor from the grease trap present 10' or greater?	Yes/No	
Are the access covers in need of repair?	Yes/No	
FOG Passing by grease trap?	Yes/No	
Does grease trap need trap repair?	Yes/No	
Are there signs the grease trap walls may be deteriorating?	Yes/No	
Are there signs the grease trap may be leaking?	Yes/No	
Was the grease trap pressure washed?	Yes/No	
Inlet Tee, Baffle Wall Elbow and Outlet Tee pressure washed?	Yes/No	
Is there any leakage under the baffle wall?	Yes/No	
Was all grease removed from walls, ledges and ridges?	Yes/No	
Total Gallons pumped out:	20	
Location where grease was disposed of:	AAA Pumping Yard - RECYCLED	

D.T.M. #71904

Rio Rancho Grease Removal Device Report

Inspection Date <u>2-7-2020</u> Service Date <u>2-7-2020</u> Technician/Company <u>Billy Harris / AAA Pumping</u>		Comments
RR5 Grease Trap		
Depth of water column in grease trap :		
Trap by Pot Wash [], 20"	-	
Trap Under Table [], 20"	-	
Trap by Office [], 15"	-	
Trap by Coffee Area, NW [X], 15"	Inches	
Depth of FOG (fats, oils, grease)	0 Inches	
Depth of Solids	1/2 Inches	
Is the accumulated FOG and solids occupying greater than 25% of the grease trap capacity	Yes/No	
Prior to opening is odor from the grease trap present 10' or greater?	Yes/No	
Are the access covers in need of repair?	Yes/No	
FOG Passing by grease trap?	Yes/No	
Does grease trap need trap repair?	Yes/No	
Are there signs the grease trap walls may be deteriorating?	Yes/No	
Are there signs the grease trap may be leaking?	Yes/No	
Was the grease trap pressure washed?	Yes/No	
Inlet Tee, Baffle Wall Elbow and Outlet Tee pressure washed?	Yes/No	
Is there any leakage under the baffle wall?	Yes/No	
Was all grease removed from walls, ledges and ridges?	Yes/No	
Total Gallons pumped out:	20	
Location where grease was disposed of:	AAA	PUMPING - YARD - RECYCLED

RR5 GREASE TRAP RUND

AAA PUMPING SERVICE, INC.

P.O. BOX 12186 ALBUQUERQUE, NM 87195
Ph: (505) 345-3965 Fax: (505) 243-0314

DISPOSAL
TRIP MANIFEST
71930

WASTE PRODUCER

PRODUCER'S

NAME Intel

PHONE

ADDRESS

4100 Sara Rd

APPROX. GALLONS

150

DATE OF

COLLECTION

2/21/20

CITY

Rio Rancho

STATE

NM

ZIP

WASTE TYPE:

☐ SAND OR GRIT

☒ GREASE

RESPON. PERSON

X

DATE

2/21/20

☐ OTHER - DESCRIBE

WASTE TRANSPORTER

TRUCK DRIVER'S SIGNATURE

X

DATE

2/21/20

PERMIT NO.

DISPOSAL SITE

AAA Pumping Service Inc

2855 2nd st sw

Albuquerque, NM 87102

MANIFEST MUST BE KEPT ON

PREMISES TO SHOW PROOF OF

PUMPING & LEGAL WASTE DISPOSAL

Responsible person signing for Waste Producer certifies that there is nothing hazardous in the materials being pumped. AAA PUMPING SERVICE, INC. reserves the right to file legal action against the Waste Producer for falsification of information.

DISPOSAL TRIP MANIFEST 71935 Rio Rancho Grease Removal Device Report

Inspection Date <u>2-21-2020</u> Service Date <u>2-21-2020</u> Technician/Company <u>Carlos Esqueda</u>		Comments
RR5 Grease Trap		
Depth of water column in grease trap :		
Trap by Pot Wash [<u>X</u>], 20"	-	
Trap Under Table [<u> </u>], 20"	-	
Trap by Office [<u> </u>], 15"	-	
Trap by Coffee Area, NW [<u> </u>], 15"	Inches	
Depth of FOG (fats, oils, grease)	7 Inches	
Depth of Solids	2 Inches	
Is the accumulated FOG and solids occupying greater than 25% of the grease trap capacity	Yes/ No	
Prior to opening is odor from the grease trap present 10' or greater?	Yes/ No	
Are the access covers in need of repair?	Yes/ No	
FOG Passing by grease trap?	Yes/ No	
Does grease trap need trap repair?	Yes/ No	
Are there signs the grease trap walls may be deteriorating?	Yes/ No	
Are there signs the grease trap may be leaking?	Yes/ No	
Was the grease trap pressure washed?	Yes/ No	
Inlet Tee, Baffle Wall Elbow and Outlet Tee pressure washed?	Yes/ No	
Is there any leakage under the baffle wall?	Yes/ No	
Was all grease removed from walls, ledges and ridges?	Yes/ No	
Total Gallons pumped out:	50	
Location where grease was disposed of:	AAA Pump & Yard - RECYCLED	

D.T. (signature) 7/19/20

Rio Rancho Grease Removal Device Report

Inspection Date <u>2-21-2020</u>	Service Date <u>2-21-2020</u>	Technician/Company <u>CARLOS ESTRADA AAA Pumping</u>	Comments
RR5 Grease Trap			
Depth of water column in grease trap :			
Trap by Pot Wash [], 20"	-		
Trap Under Table [X], 20"	-		
Trap by Office [], 15"	-		
Trap by Coffee Area, NW [], 15"	Inches		
Depth of FOG (fats, oils, grease)	1 Inches		
Depth of Solids	1/2 Inches		
Is the accumulated FOG and solids occupying greater than 25% of the grease trap capacity	Yes/No		
Prior to opening is odor from the grease trap present 10' or greater?	Yes/No		
Are the access covers in need of repair?	Yes/No		
FOG Passing by grease trap?	Yes/No		
Does grease trap need trap repair?	Yes/No		
Are there signs the grease trap walls may be deteriorating?	Yes/No		
Are there signs the grease trap may be leaking?	Yes/No		
Was the grease trap pressure washed?	Yes/No		
Inlet Tee, Baffle Wall Elbow and Outlet Tee pressure washed?	Yes/No		
Is there any leakage under the baffle wall?	Yes/No		
Was all grease removed from walls, ledges and ridges?	Yes/No		
Total Gallons pumped out:	50		
Location where grease was disposed of:	AAA	PUMPING YARD - RECYCLED	

D.T.M. # 71932

Rio Rancho Grease Removal Device Report

Inspection Date <u>2-21-2020</u> Service Date <u>2-21-2020</u> Technician/Company <u>CARLOS ESTRADA/AAA Plumbing</u>		Comments
RR5 Grease Trap		
Depth of water column in grease trap :		
Trap by Pot Wash [], 20"	-	
Trap Under Table [], 20"	-	
Trap by Office [X], 15"	-	
Trap by Coffee Area, NW [], 15"	Inches	
Depth of FOG (fats, oils, grease)	$\frac{1}{32}$ Inches	
Depth of Solids	$\frac{1}{4}$ Inches	
Is the accumulated FOG and solids occupying greater than 25% of the grease trap capacity	Yes/No	
Prior to opening is odor from the grease trap present 10' or greater?	Yes/No	
Are the access covers in need of repair?	Yes/No	
FOG Passing by grease trap?	Yes/No	
Does grease trap need trap repair?	Yes/No	
Are there signs the grease trap walls may be deteriorating?	Yes/No	
Are there signs the grease trap may be leaking?	Yes/No	
Was the grease trap pressure washed?	Yes/No	
Inlet Tee, Baffle Wall Elbow and Outlet Tee pressure washed?	Yes/No	
Is there any leakage under the baffle wall?	Yes/No	
Was all grease removed from walls, ledges and ridges?	Yes/No	
Total Gallons pumped out:	20	
Location where grease was disposed of:	AAA	PUMPING YARD - RECYCLED

D.T.M. # 71938

Rio Rancho Grease Removal Device Report

Inspection Date <u>2-21-2020</u>	Service Date <u>2-21-2020</u>	Technician/Company <u>CARRAS ESTADIA AAA Pumping</u>
RR5 Grease Trap		Comments
Depth of water column in grease trap :		
Trap by Pot Wash [], 20"	-	
Trap Under Table [], 20"	-	
Trap by Office [], 15"	-	
✓ Trap by Coffee Area, NW [X], 15"	Inches	
Depth of FOG (fats, oils, grease)	0 Inches	
Depth of Solids	1 Inches	COFFEE
Is the accumulated FOG and solids occupying greater than 25% of the grease trap capacity	Yes/No	
Prior to opening is odor from the grease trap present 10' or greater?	Yes/No	
Are the access covers in need of repair?	Yes/No	
FOG Passing by grease trap?	Yes/No	
Does grease trap need trap repair?	Yes/No	
Are there signs the grease trap walls may be deteriorating?	Yes/No	
Are there signs the grease trap may be leaking?	Yes/No	
Was the grease trap pressure washed?	Yes/No	
Inlet Tee, Baffle Wall Elbow and Outlet Tee pressure washed?	Yes/No	
Is there any leakage under the baffle wall?	Yes/No	
Was all grease removed from walls, ledges and ridges?	Yes/No	
Total Gallons pumped out:	20	
Location where grease was disposed of:	AAA	PUMPING YARD - RECYCLED (RECYCLED)

RRS Grease Trap Pump

AAA PUMPING SERVICE, INC.

P.O. BOX 12186 ALBUQUERQUE, NM 87195
Ph: (505) 345-3965 Fax: (505) 243-0314

DISPOSAL
TRIP MANIFEST
72632

PRODUCER'S		WASTE PRODUCER	
NAME	Hotel RRS	PHONE	
ADDRESS	4100 Sara Rd	GALLONS	150
CITY	Albuquerque	STATE	NM
ZIP		WASTE TYPE:	
		<input type="checkbox"/> SAND OR GRIT	
		<input checked="" type="checkbox"/> GREASE	
RESPON. PERSON	X Jim Fierro	DATE	3/13/20
WASTE TRANSPORTER			
TRUCK DRIVER'S SIGNATURE	X [Signature]	DATE	3/13/20
DISPOSAL SITE		PERMIT NO.	

AAA Pumping Service Inc
2855 2nd st sw
Albuquerque, NM 87102

MANIFEST MUST BE KEPT ON
PREMISES TO SHOW PROOF OF
PUMPING & LEGAL WASTE DISPOSAL

Responsible person signing for Waste Producer certifies that there is nothing hazardous in the materials being pumped. AAA PUMPING SERVICE, INC. reserves the right to file legal action against the Waste Producer for falsification of information.

RR5 Grease Trap

Inspection Date 3-13-2020Service Date 3-13-2020Technician/Company CARLOS ESTRADA AAA Pumping

Comments

Depth of water column in grease trap :		
Trap by Pot Wash <input checked="" type="checkbox"/> , 20"	-	
Trap Under Table <input type="checkbox"/> , 20"	-	
Trap by Office <input type="checkbox"/> , 15"	-	
Trap by Coffee Area, NW <input type="checkbox"/> , 15"	Inches	
Depth of FOG (fats, oils, grease)	7 Inches	
Depth of Solids	2 Inches	
Is the accumulated FOG and solids occupying greater than 25% of the grease trap capacity	Yes/No	
Prior to opening is odor from the grease trap present 10' or greater?	Yes/No	
Are the access covers in need of repair?	Yes/No	
FOG Passing by grease trap?	Yes/No	
Does grease trap need trap repair?	Yes/No	
Are there signs the grease trap walls may be deteriorating?	Yes/No	
Are there signs the grease trap may be leaking?	Yes/No	
Was the grease trap pressure washed?	Yes/No	
Inlet Tee, Baffle Wall Elbow and Outlet Tee pressure washed?	Yes/No	
Is there any leakage under the baffle wall?	Yes/No	
Was all grease removed from walls, ledges and ridges?	Yes/No	
Total Gallons pumped out:	50	
Location where grease was disposed of:	AAA	PUMPING YARD - RECYCLED

D.T.M. # 72632

13

Rio Rancho Grease Removal Device Report

13

RR5 Grease Trap

Inspection Date 3-8-2020 Service Date 3-8-2020 Technician/Company Carlos Estrada AAA Pumping

Comments

Depth of water column in grease trap :	-	
Trap by Pot Wash [], 20"	-	
Trap Under Table [X], 20"	-	
Trap by Office [], 15"	-	
Trap by Coffee Area, NW [], 15"	Inches	
Depth of FOG (fats, oils, grease)	1/2 Inches	
Depth of Solids	3/4 Inches	
Is the accumulated FOG and solids occupying greater than 25% of the grease trap capacity	Yes/No	
Prior to opening is odor from the grease trap present 10' or greater?	Yes/No	
Are the access covers in need of repair?	Yes/No	
FOG Passing by grease trap?	Yes/No	
Does grease trap need trap repair?	Yes/No	
Are there signs the grease trap walls may be deteriorating?	Yes/No	
Are there signs the grease trap may be leaking?	Yes/No	
Was the grease trap pressure washed?	Yes/No	
Inlet Tee, Baffle Wall Elbow and Outlet Tee pressure washed?	Yes/No	
Is there any leakage under the baffle wall?	Yes/No	
Was all grease removed from walls, ledges and ridges?	Yes/No	
Total Gallons pumped out:	50	
Location where grease was disposed of:	AAA	PUMPING YARD- RECYCLED

D.I.M. # 72632

Rio Rancho Grease Removal Device Report

13 (ALL)

13 (ALL)

Inspection Date <u>3-8-2020</u> Service Date <u>3-8-2020</u> Technician/Company <u>ARLES STORRA</u> <u>AAA Removal</u>	
RR5 Grease Trap	
Depth of water column in grease trap :	
Trap by Pot Wash [], 20"	-
Trap Under Table [], 20"	-
Trap by Office [X], 15"	-
Trap by Coffee Area, NW [], 15"	Inches
Depth of FOG (fats, oils, grease)	1/32 Inches
Depth of Solids	1/8 Inches
Is the accumulated FOG and solids occupying greater than 25% of the grease trap capacity	Yes/No
Prior to opening is odor from the grease trap present 10' or greater?	Yes/No
Are the access covers in need of repair?	Yes/No
FOG Passing by grease trap?	Yes/No
Does grease trap need trap repair?	Yes/No
Are there signs the grease trap walls may be deteriorating?	Yes/No
Are there signs the grease trap may be leaking?	Yes/No
Was the grease trap pressure washed?	Yes/No
Inlet Tee, Baffle Wall Elbow and Outlet Tee pressure washed?	Yes/No
Is there any leakage under the baffle wall?	Yes/No
Was all grease removed from walls, ledges and ridges?	Yes/No
Total Gallons pumped out:	20
Location where grease was disposed of:	AAA Pumping-YARD-RECYCLED

D.T.M. # 19639

13

Rio Rancho Grease Removal Device Report

13

Inspection Date <u>3-8-2020</u> Service Date <u>3-8-2020</u> Technician/Company <u>AAAS ESTADIA AAA REMOVING</u>		Comments
RR5 Grease Trap		
Depth of water column in grease trap :		
Trap by Pot Wash [], 20"	-	
Trap Under Table [], 20"	-	
Trap by Office [], 15"	-	
Trap by Coffee Area, NW [X], 15"	Inches	
Depth of FOG (fats, oils, grease)	0 Inches	
Depth of Solids	1/2 Inches	
Is the accumulated FOG and solids occupying greater than 25% of the grease trap capacity	Yes/No	
Prior to opening is odor from the grease trap present 10' or greater?	Yes/No	
Are the access covers in need of repair?	Yes/No	
FOG Passing by grease trap?	Yes/No	
Does grease trap need trap repair?	Yes/No	
Are there signs the grease trap walls may be deteriorating?	Yes/No	
Are there signs the grease trap may be leaking?	Yes/No	
Was the grease trap pressure washed?	Yes/No	
Inlet Tee, Baffle Wall Elbow and Outlet Tee pressure washed?	Yes/No	
Is there any leakage under the baffle wall?	Yes/No	
Was all grease removed from walls, ledges and ridges?	Yes/No	
Total Gallons pumped out:	20	
Location where grease was disposed of:	AAA	PUMPING YARD - RECYCLED

AAA PUMPING SERVICE, INC.

P.O. BOX 12186 ALBUQUERQUE, NM 87195
Ph: (505) 345-3965 Fax: (505) 243-0314

DISPOSAL
TRIP MANIFEST
72396

WASTE PRODUCER

PRODUCER'S NAME Futrel K&S PHONE _____ APPROX. DATE OF
ADDRESS 4100 Santa Rd GALLONS 150 COLLECTION 3/22/20
CITY Rio Hondo STATE NM ZIP _____ WASTE TYPE:
☐ SAND OR GRIT ☒ GREASE
RESPON. PERSON X [Signature] DATE 3/27/20 ☐ OTHER - DESCRIBE _____

WASTE TRANSPORTER

TRUCK DRIVER'S SIGNATURE X [Signature] DATE 3/27/20 PERMIT NO. _____
DISPOSAL SITE _____

AAA Pumping Service Inc
2855 2nd st sw
Albuquerque, NM 87102

MANIFEST MUST BE KEPT ON
PREMISES TO SHOW PROOF OF
PUMPING & LEGAL WASTE DISPOSAL

Responsible person signing for Waste Producer certifies that there is nothing hazardous in the materials being pumped. AAA PUMPING SERVICE, INC. reserves the right to file legal action against the Waste Producer for falsification of information.

Rio Rancho Grease Removal Device Report

Inspection Date <u>3-27-2020</u> Service Date <u>3-27-2020</u> Technician/Company <u>Billy Harko / AAA Pumping</u>		Comments
RRS Grease Trap		
Depth of water column in grease trap :		
Trap by Pot Wash [<input checked="" type="checkbox"/> , 20"		
Trap Under Table [<input type="checkbox"/> , 20"		
Trap by Office [<input type="checkbox"/> , 15"		
Trap by Coffee Area, NW [<input type="checkbox"/> , 15"	Inches	
Depth of FOG (fats, oils, grease)	7 Inches	
Depth of Solids	2 Inches	
Is the accumulated FOG and solids occupying greater than 25% of the grease trap capacity	Yes/No	
Prior to opening is odor from the grease trap present 10' or greater?	Yes/No	
Are the access covers in need of repair?	Yes/No	
FOG Passing by grease trap?	Yes/No	
Does grease trap need trap repair?	Yes/No	
Are there signs the grease trap walls may be deteriorating?	Yes/No	
Are there signs the grease trap may be leaking?	Yes/No	
Was the grease trap pressure washed?	Yes/No	
Inlet Tee, Baffle Wall Elbow and Outlet Tee pressure washed?	Yes/No	
Is there any leakage under the baffle wall?	Yes/No	
Was all grease removed from walls, ledges and ridges?	Yes/No	
Total Gallons pumped out:	50	
Location where grease was disposed of:	AAA Pumping Yard - RECYCLED	

Rio Rancho Grease Removal Device Report

Inspection Date <u>3-27-2020</u> Service Date <u>3-27-2020</u> Technician/Company <u>Billy Hase / AAA Plumbing</u>		Comments
RR5 Grease Trap		
Depth of water column in grease trap :		
Trap by Pot Wash <input type="checkbox"/> , 20"	-	
Trap Under Table <input checked="" type="checkbox"/> , 20"	-	
Trap by Office <input type="checkbox"/> , 15"	-	
Trap by Coffee Area, NW <input type="checkbox"/> , 15"	Inches	
Depth of FOG (fats, oils, grease)	1/2 Inches	
Depth of Solids	1/2 Inches	
Is the accumulated FOG and solids occupying greater than 25% of the grease trap capacity	Yes/No	
Prior to opening is odor from the grease trap present 10' or greater?	Yes/No	
Are the access covers in need of repair?	Yes/No	
FOG Passing by grease trap?	Yes/No	
Does grease trap need trap repair?	Yes/No	
Are there signs the grease trap walls may be deteriorating?	Yes/No	
Are there signs the grease trap may be leaking?	Yes/No	
Was the grease trap pressure washed?	Yes/No	
Inlet Tee, Baffle Wall Elbow and Outlet Tee pressure washed?	Yes/No	
Is there any leakage under the baffle wall?	Yes/No	
Was all grease removed from walls, ledges and ridges?	Yes/No	
Total Gallons pumped out:	50	
Location where grease was disposed of:	AAA Pumping Yard - Recycled	

Rio Rancho Grease Removal Device Report

Inspection Date <u>3-27-2020</u> Service Date <u>3-27-2020</u> Technician/Company <u>Bryce HHS / AAA Plumbing</u>		Comments
RR5 Grease Trap		
Depth of water column in grease trap :	-	
Trap by Pot Wash [], 20"	-	
Trap Under Table [], 20"	-	
Trap by Office <input checked="" type="checkbox"/> 15"	-	
Trap by Coffee Area, NW [], 15"	Inches	
Depth of FOG (fats, oils, grease)	$\frac{1}{8}$ Inches	
Depth of Solids	$\frac{1}{32}$ Inches	
Is the accumulated FOG and solids occupying greater than 25% of the grease trap capacity	Yes/No	
Prior to opening is odor from the grease trap present 10' or greater?	Yes/No	
Are the access covers in need of repair?	Yes/No	
FOG Passing by grease trap?	Yes/No	
Does grease trap need trap repair?	Yes/No	
Are there signs the grease trap walls may be deteriorating?	Yes/No	
Are there signs the grease trap may be leaking?	Yes/No	
Was the grease trap pressure washed?	Yes/No	
Inlet Tee, Baffle Wall Elbow and Outlet Tee pressure washed?	Yes/No	
Is there any leakage under the baffle wall?	Yes/No	
Was all grease removed from walls, ledges and ridges?	Yes/No	
Total Gallons pumped out:	20	
Location where grease was disposed of:	AAA Plumbing - RECYCLED	

Rio Rancho Grease Removal Device Report

Inspection Date <u>3-27-2020</u> Service Date <u>3-27-2020</u> Technician/Company <u>Belt Hare / AAA Pumping</u>		Comments
RR5 Grease Trap		
Depth of water column in grease trap :		
Trap by Pot Wash [], 20"	-	
Trap Under Table [], 20"	-	
Trap by Office [], 15"	-	
Trap by Coffee Area, NW [X], 15"	Inches	
Depth of FOG (fats, oils, grease)	0 Inches	
Depth of Solids	3/4 Inches	
Is the accumulated FOG and solids occupying greater than 25% of the grease trap capacity	Yes/No	
Prior to opening is odor from the grease trap present 10' or greater?	Yes/No	
Are the access covers in need of repair?	Yes/No	
FOG Passing by grease trap?	Yes/No	
Does grease trap need trap repair?	Yes/No	
Are there signs the grease trap walls may be deteriorating?	Yes/No	
Are there signs the grease trap may be leaking?	Yes/No	
Was the grease trap pressure washed?	Yes/No	
Inlet Tee, Baffle Wall Elbow and Outlet Tee pressure washed?	Yes/No	
Is there any leakage under the baffle wall?	Yes/No	
Was all grease removed from walls, ledges and ridges?	Yes/No	
Total Gallons pumped out:	20	
Location where grease was disposed of:	AAA Pumping Yard - Recycled	

AAA PUMPING SERVICE, INC.

P.O. BOX 12186 ALBUQUERQUE, NM 87195
Ph: (505) 345-3965 Fax: (505) 243-0314

DISPOSAL
TRIP MANIFEST
74368

WASTE PRODUCER

PRODUCER'S NAME Intel KRS PHONE _____ APPROX. DATE OF
ADDRESS 4100 Santa Rd GALLONS 150 COLLECTION 4/10/20
CITY La Jolla STATE CA ZIP _____ WASTE TYPE:
☐ SAND OR GRIT ☒ GREASE
RESPON. PERSON X [Signature] DATE 4/10/20 ☐ OTHER - DESCRIBE _____

WASTE TRANSPORTER

TRUCK DRIVER'S SIGNATURE X [Signature] DATE 4/10/20 PERMIT NO. 91
DISPOSAL SITE _____

AAA Pumping Service Inc
2855 2nd st sw
Albuquerque, NM 87102

MANIFEST MUST BE KEPT ON
PREMISES TO SHOW PROOF OF
PUMPING & LEGAL WASTE DISPOSAL

Responsible person signing for Waste Producer certifies that there is nothing hazardous in the materials being pumped. AAA PUMPING SERVICE, INC. reserves the right to file legal action against the Waste Producer for falsification of information.

Rio Rancho Grease Removal Device Report

Inspection Date <u>4-10-2020</u> Service Date <u>4-10-2020</u> Technician/Company <u>BILLY HARSO / AAA RAMPING</u>	
R5 Grease Trap	
Comments	
Depth of water column in grease trap :	-
Trap by Pot Wash [<u>X</u>], 20"	-
Trap Under Table [<u> </u>], 20"	-
Trap by Office [<u> </u>], 15"	-
Trap by Coffee Area, NW [<u> </u>], 15"	Inches
Depth of FOG (fats, oils, grease)	<u>6</u> Inches
Depth of Solids	<u>2</u> Inches
Is the accumulated FOG and solids occupying greater than 25% of the grease trap capacity	<u>Yes/No</u>
Prior to opening is odor from the grease trap present 10' or greater?	<u>Yes/No</u>
Are the access covers in need of repair?	<u>Yes/No</u>
FOG Passing by grease trap?	<u>Yes/No</u>
Does grease trap need trap repair?	<u>Yes/No</u>
Are there signs the grease trap walls may be deteriorating?	<u>Yes/No</u>
Are there signs the grease trap may be leaking?	<u>Yes/No</u>
Was the grease trap pressure washed?	<u>Yes/No</u>
Inlet Tee, Baffle Wall Elbow and Outlet Tee pressure washed?	<u>Yes/No</u>
Is there any leakage under the baffle wall?	<u>Yes/No</u>
Was all grease removed from walls, ledges and ridges?	<u>Yes/No</u>
Total Gallons pumped out:	<u>50</u>
Location where grease was disposed of:	<u>AAA RAMPING YARD - RECYCLED</u>

Rio Rancho Grease Removal Device Report

Inspection Date <u>4-18-2020</u> Service Date <u>4-18-2020</u> Technician/Company <u>Billy Harso/AAA Pumping</u> RR5 Grease Trap		
		Comments
Depth of water column in grease trap :	-	
Trap by Pot Wash <input type="checkbox"/> , 20"	-	
✓ Trap Under Table <input checked="" type="checkbox"/> , 20"	-	
Trap by Office <input type="checkbox"/> , 15"	-	
Trap by Coffee Area, NW <input type="checkbox"/> , 15"	Inches	
Depth of FOG (fats, oils, grease)	1/4 Inches	
Depth of Solids	1/8 Inches	
Is the accumulated FOG and solids occupying greater than 25% of the grease trap capacity	Yes/No	
Prior to opening is odor from the grease trap present 10' or greater?	Yes/No	
Are the access covers in need of repair?	Yes/No	
FOG Passing by grease trap?	Yes/No	
Does grease trap need trap repair?	Yes/No	
Are there signs the grease trap walls may be deteriorating?	Yes/No	
Are there signs the grease trap may be leaking?	Yes/No	
Was the grease trap pressure washed?	Yes/No	
Inlet Tee, Baffle Wall Elbow and Outlet Tee pressure washed?	Yes/No	
Is there any leakage under the baffle wall?	Yes/No	
Was all grease removed from walls, ledges and ridges?	Yes/No	
Total Gallons pumped out:	50	
Location where grease was disposed of:	AAA Pumping Yard - RECYCLED	

Rio Rancho Grease Removal Device Report

Inspection Date <u>4-10-2020</u> Service Date <u>4-10-2020</u> Technician/Company <u>Billy Harris/AAA Pumping</u>		Comments
RR5 Grease Trap		
Depth of water column in grease trap :		
Trap by Pot Wash [], 20"	-	
Trap Under Table [], 20"	-	
Trap by Office [X], 15"	-	
Trap by Coffee Area, NW [], 15"	Inches	
Depth of FOG (fats, oils, grease)	$\frac{1}{32}$ Inches	
Depth of Solids	$\frac{1}{8}$ Inches	
Is the accumulated FOG and solids occupying greater than 25% of the grease trap capacity	Yes/No	
Prior to opening is odor from the grease trap present 10' or greater?	Yes/No	
Are the access covers in need of repair?	Yes/No	
FOG Passing by grease trap?	Yes/No	
Does grease trap need trap repair?	Yes/No	
Are there signs the grease trap walls may be deteriorating?	Yes/No	
Are there signs the grease trap may be leaking?	Yes/No	
Was the grease trap pressure washed?	Yes/No	
Inlet Tee, Baffle Wall Elbow and Outlet Tee pressure washed?	Yes/No	
Is there any leakage under the baffle wall?	Yes/No	
Was all grease removed from walls, ledges and ridges?	Yes/No	
Total Gallons pumped out:	20	
Location where grease was disposed of:	AAA Pumping Yard - RECYCLED	

Rio Rancho Grease Removal Device Report

Inspection Date <u>4-10-2020</u> Service Date <u>4-10-2020</u> Technician/Company <u>ELLY HARSO/AAA Pumping</u>		Comments
RR5 Grease Trap		
Depth of water column in grease trap :		
Trap by Pot Wash [], 20"	-	
Trap Under Table [], 20"	-	
Trap by Office [], 15"	-	
Trap by Coffee Area, NW [X], 15"	Inches	
Depth of FOG (fats, oils, grease)	0 Inches	
Depth of Solids	1/2 Inches	
Is the accumulated FOG and solids occupying greater than 25% of the grease trap capacity	Yes/No	
Prior to opening is odor from the grease trap present 10' or greater?	Yes/No	
Are the access covers in need of repair?	Yes/No	
FOG Passing by grease trap?	Yes/No	
Does grease trap need trap repair?	Yes/No	
Are there signs the grease trap walls may be deteriorating?	Yes/No	
Are there signs the grease trap may be leaking?	Yes/No	
Was the grease trap pressure washed?	Yes/No	
Inlet Tee, Baffle Wall Elbow and Outlet Tee pressure washed?	Yes/No	
Is there any leakage under the baffle wall?	Yes/No	
Was all grease removed from walls, ledges and ridges?	Yes/No	
Total Gallons pumped out:	20	
Location where grease was disposed of:	AAA	PUMPING YARD - RECYCLED

RR5

4-24-2020

AAA PUMPING SERVICE, INC.

P.O. BOX 12186 ALBUQUERQUE, NM 87195
Ph: (505) 345-3965 Fax: (505) 243-0314

DISPOSAL
TRIP MANIFEST
74416

WASTE PRODUCER

PRODUCER'S NAME Intel RR5 APPROX. 150 GALLONS 4/24/20 DATE OF COLLECTION
ADDRESS 400 SARA Rd WASTE TYPE: ☐ SAND OR GRIT ☒ GREASE
CITY Bio Rancho STATE NM ZIP 87102
RESPON. PERSON X SM eff DATE 4/24/20 OTHER - DESCRIBE _____

WASTE TRANSPORTER

TRUCK DRIVER'S SIGNATURE X Bill Harris DATE 4/24/20 PERMIT NO. PL
DISPOSAL SITE _____

AAA Pumping Service Inc
2855 2nd st sw
Albuquerque, NM 87102

MANIFEST MUST BE KEPT ON
PREMISES TO SHOW PROOF OF
PUMPING & LEGAL WASTE DISPOSAL

Responsible person signing for Waste Producer certifies that there is nothing hazardous in the materials being pumped. AAA PUMPING SERVICE, INC. reserves the right to file legal action against the Waste Producer for falsification of information.

Rio Rancho Grease Removal Device Report

Inspection Date	Service Date	Technician/Company	Comments
RR5 Grease Trap			
Depth of water column in grease trap :	-		
✓ Trap by Pot Wash [X], 20"	-		
Trap Under Table [], 20"	-		
Trap by Office [], 15"	-		
Trap by Coffee Area, NW [], 15"		Inches	
Depth of FOG (fats, oils, grease)		6 Inches	
Depth of Solids		2 Inches	
Is the accumulated FOG and solids occupying greater than 25% of the grease trap capacity		Yes/No	
Prior to opening is odor from the grease trap present 10' or greater?		Yes/No	
Are the access covers in need of repair?		Yes/No	
FOG Passing by grease trap?		Yes/No	
Does grease trap need trap repair?		Yes/No	
Are there signs the grease trap walls may be deteriorating?		Yes/No	
Are there signs the grease trap may be leaking?		Yes/No	
Was the grease trap pressure washed?		Yes/No	
Inlet Tee, Baffle Wall Elbow and Outlet Tee pressure washed?		Yes/No	
Is there any leakage under the baffle wall?		Yes/No	
Was all grease removed from walls, ledges and ridges?		Yes/No	
Total Gallons pumped out:		50	
Location where grease was disposed of:		AAA Pumping Yard - Recycled	

Rio Rancho Grease Removal Device Report

Inspection Date <u>4-24-20</u>	Service Date <u>4-24-20</u>	Technician/Company <u>Billy Harris / AAA Pumping</u>	Comments
RR5 Grease Trap			
Depth of water column in grease trap :	-		
Trap by Pot Wash [], 20"	-		
Trap Under Table [X], 20"	-		
Trap by Office [], 15"	-		
Trap by Coffee Area, NW [], 15"		Inches	
Depth of FOG (fats, oils, grease)		1/4 Inches	
Depth of Solids		1/2 Inches	
Is the accumulated FOG and solids occupying greater than 25% of the grease trap capacity		Yes/No	
Prior to opening is odor from the grease trap present 10' or greater?		Yes/No	
Are the access covers in need of repair?		Yes/No	
FOG Passing by grease trap?		Yes/No	
Does grease trap need trap repair?		Yes/No	
Are there signs the grease trap walls may be deteriorating?		Yes/No	
Are there signs the grease trap may be leaking?		Yes/No	
Was the grease trap pressure washed?		Yes/No	
Inlet Tee, Baffle Wall Elbow and Outlet Tee pressure washed?		Yes/No	
Is there any leakage under the baffle wall?		Yes/No	
Was all grease removed from walls, ledges and ridges?		Yes/No	
Total Gallons pumped out:		50	
Location where grease was disposed of:		AAA Pumping Yard - RECYCLED	

Rio Rancho Grease Removal Device Report

Inspection Date	Service Date	Technician/Company	Comments
RR5 Grease Trap			
Depth of water column in grease trap :	-		
Trap by Pot Wash [], 20"	-		
Trap Under Table [], 20"	-		
✓ Trap by Office [X], 15"			
Trap by Coffee Area, NW [], 15"		Inches	
Depth of FOG (fats, oils, grease)		1/32 Inches	
Depth of Solids		1/4 Inches	
Is the accumulated FOG and solids occupying greater than 25% of the grease trap capacity		Yes/No	
Prior to opening is odor from the grease trap present 10' or greater?		Yes/No	
Are the access covers in need of repair?		Yes/No	
FOG Passing by grease trap?		Yes/No	
Does grease trap need trap repair?		Yes/No	
Are there signs the grease trap walls may be deteriorating?		Yes/No	
Are there signs the grease trap may be leaking?		Yes/No	
Was the grease trap pressure washed?		Yes/No	
Inlet Tee, Baffle Wall Elbow and Outlet Tee pressure washed?		Yes/No	
Is there any leakage under the baffle wall?		Yes/No	
Was all grease removed from walls, ledges and ridges?		Yes/No	
Total Gallons pumped out:		20	
Location where grease was disposed of:		AAA PUMPING YARD - RECYCLED	

Rio Rancho Grease Removal Device Report

Inspection Date <u>4-24-20</u>	Service Date <u>4-24-20</u>	Technician/Company <u>BILLY HARD</u>	Comments <u>AAA Pumping</u>
RR5 Grease Trap			
Depth of water column in grease trap :			
Trap by Pot Wash [], 20"	-		
Trap Under Table [], 20"	-		
Trap by Office [], 15"	-		
✓ Trap by Coffee Area, NW [X], 15"			
Depth of FOG (fats, oils, grease)	Inches		
Depth of Solids	Inches	0	
Is the accumulated FOG and solids occupying greater than 25% of the grease trap capacity	Inches	1	
Prior to opening is odor from the grease trap present 10' or greater?		Yes/No	
Are the access covers in need of repair?		Yes/No	
FOG Passing by grease trap?		Yes/No	
Does grease trap need trap repair?		Yes/No	
Are there signs the grease trap walls may be deteriorating?		Yes/No	
Are there signs the grease trap may be leaking?		Yes/No	
Was the grease trap pressure washed?		Yes/No	
Inlet Tee, Baffle Wall Elbow and Outlet Tee pressure washed?		Yes/No	
Is there any leakage under the baffle wall?		Yes/No	
Was all grease removed from walls, ledges and ridges?		Yes/No	
Total Gallons pumped out:		20	
Location where grease was disposed of:		AAA Pumping YARD - RECYCLED	

AAA PUMPING SERVICE, INC.

P.O. BOX 12186 ALBUQUERQUE, NM 87195
Ph: (505) 345-3965 Fax: (505) 243-0314

DISPOSAL
TRIP MANIFEST
73311

WASTE PRODUCER

PRODUCER'S NAME	<u>Futrel RRS</u>	APPROX. GALLONS	<u>150</u>	DATE OF COLLECTION	<u>5/8/20</u>
ADDRESS	<u>4100 SARA Rd</u>				
CITY	<u>Rio Rancho</u>	STATE	<u>NM</u>	ZIP	
RESPON. PERSON	<u>X</u>	DATE	<u>5/8/20</u>	WASTE TYPE:	
				<input type="checkbox"/> SAND OR GRIT	<input checked="" type="checkbox"/> GREASE
				<input type="checkbox"/> OTHER - DESCRIBE	

WASTE TRANSPORTER

TRUCK DRIVER'S SIGNATURE	<u>X</u>	DATE	<u>5/8/20</u>	PERMIT NO.	<u>2991</u>
DISPOSAL SITE					

AAA Pumping Service Inc
2855 2nd st sw
Albuquerque, NM 87102

MANIFEST MUST BE KEPT ON
PREMISES TO SHOW PROOF OF
PUMPING & LEGAL WASTE DISPOSAL

Responsible person signing for Waste Producer certifies that there is nothing hazardous in the materials being pumped. AAA PUMPING SERVICE, INC. reserves the right to file legal action against the Waste Producer for falsification of information.

Rio Rancho Grease Removal Device Report

Inspection Date <u>5-8-20</u>	Service Date <u>5-8-20</u>	Technician/Company <u>Billy Harjo / AAA Pumping</u>	Comments
RR5 Grease Trap			
Depth of water column in grease trap :			
Trap by Pot Wash [<input checked="" type="checkbox"/> , 20"	-		
Trap Under Table [<input type="checkbox"/> , 20"	-		
Trap by Office [<input type="checkbox"/> , 15"	-		
Trap by Coffee Area, NW [<input type="checkbox"/> , 15"			
Depth of FOG (fats, oils, grease)	Inches	<u>6</u>	
Depth of Solids	Inches	<u>2</u>	
Is the accumulated FOG and solids occupying greater than 25% of the grease trap capacity		<u>Yes/No</u>	
Prior to opening is odor from the grease trap present 10' or greater?		<u>Yes/No</u>	
Are the access covers in need of repair?		<u>Yes/No</u>	
FOG Passing by grease trap?		<u>Yes/No</u>	
Does grease trap need trap repair?		<u>Yes/No</u>	
Are there signs the grease trap walls may be deteriorating?		<u>Yes/No</u>	
Are there signs the grease trap may be leaking?		<u>Yes/No</u>	
Was the grease trap pressure washed?		<u>Yes/No</u>	
Inlet Tee, Baffle Wall Elbow and Outlet Tee pressure washed?		<u>Yes/No</u>	
Is there any leakage under the baffle wall?		<u>Yes/No</u>	
Was all grease removed from walls, ledges and ridges?		<u>Yes/No</u>	
Total Gallons pumped out:		<u>50</u>	
Location where grease was disposed of:		<u>AAA PUMPING YARD - RECYCLED</u>	

Rio Rancho Grease Removal Device Report

Inspection Date <u>5-8-20</u>	Service Date <u>5-8-20</u>	Technician/Company <u>BILLY HARVE/AAA PUMPING</u>	Comments
RR5 Grease Trap			
Depth of water column in grease trap :			
Trap by Pot Wash [], 20"			
Trap Under Table [X], 20"			
Trap by Office [], 15"			
Trap by Coffee Area, NW [], 15"			
Depth of FOG (fats, oils, grease)			
Inches			
<u>1/2</u> Inches			
Depth of Solids			
<u>1/2</u> Inches			
Is the accumulated FOG and solids occupying greater than 25% of the grease trap capacity			
Yes/No			
Prior to opening is odor from the grease trap present 10' or greater?			
Yes/No			
Are the access covers in need of repair?			
Yes/No			
FOG Passing by grease trap?			
Yes/No			
Does grease trap need trap repair?			
Yes/No			
Are there signs the grease trap walls may be deteriorating?			
Yes/No			
Are there signs the grease trap may be leaking?			
Yes/No			
Was the grease trap pressure washed?			
Yes/No			
Inlet Tee, Baffle Wall Elbow and Outlet Tee pressure washed?			
Yes/No			
Is there any leakage under the baffle wall?			
Yes/No			
Was all grease removed from walls, ledges and ridges?			
Yes/No			
Total Gallons pumped out:			
<u>50</u>			
Location where grease was disposed of:			
<u>AAA PUMPING YARD - RECYCLED</u>			

Rio Rancho Grease Removal Device Report

Inspection Date <u>5-8-20</u>	Service Date <u>5-8-20</u>	Technician/Company <u>BILLY HARSH/AAA PUMPING</u>	Comments
RR5 Grease Trap			
Depth of water column in grease trap :			
Trap by Pot Wash [], 20"	-		
Trap Under Table [], 20"	-		
Trap by Office [X], 15"	-		
Trap by Coffee Area, NW [], 15"			
Depth of FOG (fats, oils, grease)		Inches	
Depth of Solids		<u>1/32</u> Inches	
Is the accumulated FOG and solids occupying greater than 25% of the grease trap capacity		<u>Yes/No</u>	
Prior to opening is odor from the grease trap present 10' or greater?		<u>Yes/No</u>	
Are the access covers in need of repair?		<u>Yes/No</u>	
FOG Passing by grease trap?		<u>Yes/No</u>	
Does grease trap need trap repair?		<u>Yes/No</u>	
Are there signs the grease trap walls may be deteriorating?		<u>Yes/No</u>	
Are there signs the grease trap may be leaking?		<u>Yes/No</u>	
Was the grease trap pressure washed?		<u>Yes/No</u>	
Inlet Tee, Baffle Wall Elbow and Outlet Tee pressure washed?		<u>Yes/No</u>	
Is there any leakage under the baffle wall?		<u>Yes/No</u>	
Was all grease removed from walls, ledges and ridges?		<u>Yes/No</u>	
Total Gallons pumped out:		<u>20</u>	
Location where grease was disposed of:		<u>AAA PUMPING YARD - RECYCLED</u>	

Rio Rancho Grease Removal Device Report

Inspection Date <u>5-8-20</u>	Service Date <u>5-8-20</u>	Technician/Company <u>BILLY HARTO/AAA Pumping</u>	Comments
RR5 Grease Trap			
Depth of water column in grease trap :			
Trap by Pot Wash [], 20"			
Trap Under Table [], 20"			
Trap by Office [], 15"			
Trap by Coffee Area, NW [X], 15"			
Depth of FOG (fats, oils, grease)			
Inches			
0 Inches			
Depth of Solids			
3/4 Inches			
Is the accumulated FOG and solids occupying greater than 25% of the grease trap capacity			
Yes/No			
Prior to opening is odor from the grease trap present 10' or greater?			
Yes/No			
Are the access covers in need of repair?			
Yes/No			
FOG Passing by grease trap?			
Yes/No			
Does grease trap need trap repair?			
Yes/No			
Are there signs the grease trap walls may be deteriorating?			
Yes/No			
Are there signs the grease trap may be leaking?			
Yes/No			
Was the grease trap pressure washed?			
Yes/No			
Inlet Tee, Baffle Wall Elbow and Outlet Tee pressure washed?			
Yes/No			
Is there any leakage under the baffle wall?			
Yes/No			
Was all grease removed from walls, ledges and ridges?			
Yes/No			
Total Gallons pumped out:			
20			
Location where grease was disposed of:			
AAA Pumping Yard - RECYCLED			

AAA PUMPING SERVICE, INC.

P.O. BOX 12186 ALBUQUERQUE, NM 87195
Ph: (505) 345-3965 Fax: (505) 243-0314

DISPOSAL
TRIP MANIFEST
73339

WASTE PRODUCER

PRODUCER'S NAME	<u>Intel RLS</u>	APPROX. GALLONS	<u>150</u>	DATE OF COLLECTION	<u>5/22/20</u>
ADDRESS	<u>4100 Santa Rd</u>	WASTE TYPE:			
CITY	<u>Rio Rancho</u>	STATE	<u>NM</u>	ZIP	<u></u>
RESPON. PERSON	<u>X</u>	<input checked="" type="checkbox"/> GREASE			
	<u>MM</u>	<input type="checkbox"/> SAND OR GRIT			
	<u>5/22/20</u>	<input type="checkbox"/> OTHER - DESCRIBE			

WASTE TRANSPORTER

TRUCK DRIVER'S SIGNATURE	<u>X Billy Harris</u>	DATE	<u>5/22/20</u>	PERMIT NO.	<u>P1</u>
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DISPOSAL SITE

AAA Pumping Service Inc
2855 2nd st sw
Albuquerque, NM 87102

MANIFEST MUST BE KEPT ON
PREMISES TO SHOW PROOF OF
PUMPING & LEGAL WASTE DISPOSAL

Responsible person signing for Waste Producer certifies that there is nothing hazardous in the materials being pumped. AAA PUMPING SERVICE, INC. reserves the right to file legal action against the Waste Producer for falsification of information.

Rio Rancho Grease Removal Device Report

Inspection Date <u>5-22-20</u>	Service Date <u>5-22-20</u>	Technician/Company <u>Billy Harjo / AAA Pumping</u>	Comments
RR5 Grease Trap			
Depth of water column in grease trap :			
Trap by Pot Wash <input checked="" type="checkbox"/> , 20"			
Trap Under Table <input type="checkbox"/> , 20"			
Trap by Office <input type="checkbox"/> , 15"			
Trap by Coffee Area, NW <input type="checkbox"/> , 15"		Inches	
Depth of FOG (fats, oils, grease)		<u>7</u> Inches	
Depth of Solids		<u>2</u> Inches	
Is the accumulated FOG and solids occupying greater than 25% of the grease trap capacity		<u>Yes/No</u>	
Prior to opening is odor from the grease trap present 10' or greater?		<u>Yes/No</u>	
Are the access covers in need of repair?		<u>Yes/No</u>	
FOG Passing by grease trap?		<u>Yes/No</u>	
Does grease trap need trap repair?		<u>Yes/No</u>	
Are there signs the grease trap walls may be deteriorating?		<u>Yes/No</u>	
Are there signs the grease trap may be leaking?		<u>Yes/No</u>	
Was the grease trap pressure washed?		<u>Yes/No</u>	
Inlet Tee, Baffle Wall Elbow and Outlet Tee pressure washed?		<u>Yes/No</u>	
Is there any leakage under the baffle wall?		<u>Yes/No</u>	
Was all grease removed from walls, ledges and ridges?		<u>Yes/No</u>	
Total Gallons pumped out:		<u>50</u>	
Location where grease was disposed of:		<u>AAA</u>	<u>PUMPING YARD - RECYCLED</u>

Rio Rancho Grease Removal Device Report

Inspection Date <u>5-22-20</u>	Service Date <u>5-22-20</u>	Technician/Company <u>Billy Harris / AAA Pumping</u>	Comments
RR5 Grease Trap			
Depth of water column in grease trap :			
Trap by Pot Wash [], 20"	-		
Trap Under Table [X], 20"	-		
Trap by Office [], 15"	-		
Trap by Coffee Area, NW [], 15"			
Depth of FOG (fats, oils, grease)	Inches		
Depth of Solids	1/4 Inches		
	1/2 Inches		
Is the accumulated FOG and solids occupying greater than 25% of the grease trap capacity	Yes/No		
Prior to opening is odor from the grease trap present 10' or greater?	Yes/No		
Are the access covers in need of repair?	Yes/No		
FOG Passing by grease trap?	Yes/No		
Does grease trap need trap repair?	Yes/No		
Are there signs the grease trap walls may be deteriorating?	Yes/No		
Are there signs the grease trap may be leaking?	Yes/No		
Was the grease trap pressure washed?	Yes/No		
Inlet Tee, Baffle Wall Elbow and Outlet Tee pressure washed?	Yes/No		
Is there any leakage under the baffle wall?	Yes/No		
Was all grease removed from walls, ledges and ridges?	Yes/No		
Total Gallons pumped out:	50		
Location where grease was disposed of:	AAA		PUMPING YARD - RECYCLED

Rio Rancho Grease Removal Device Report

Inspection Date <u>5-22-20</u>	Service Date <u>5-22-20</u>	Technician/Company <u>BILLY HARJO / AAA PUMPING</u>	Comments
RR5 Grease Trap			
Depth of water column in grease trap :			
Trap by Pot Wash [], 20"	-		
Trap Under Table [], 20"	-		
Trap by Office [X], 15"	-		
Trap by Coffee Area, NW [], 15"			
Depth of FOG (fats, oils, grease)	<u>1/32</u> Inches		
Depth of Solids	<u>1/8</u> Inches		
Is the accumulated FOG and solids occupying greater than 25% of the grease trap capacity	Yes/No		
Prior to opening is odor from the grease trap present 10' or greater?	Yes/No		
Are the access covers in need of repair?	Yes/No		
FOG Passing by grease trap?	Yes/No		
Does grease trap need trap repair?	Yes/No		
Are there signs the grease trap walls may be deteriorating?	Yes/No		
Are there signs the grease trap may be leaking?	Yes/No		
Was the grease trap pressure washed?	Yes/No		
Inlet Tee, Baffle Wall Elbow and Outlet Tee pressure washed?	Yes/No		
Is there any leakage under the baffle wall?	Yes/No		
Was all grease removed from walls, ledges and ridges?	Yes/No		
Total Gallons pumped out:	<u>20</u>		
Location where grease was disposed of:	<u>AAA PUMPING YARD - RECYCLED</u>		

Rio Rancho Grease Removal Device Report

Inspection Date <u>5-22-20</u> Service Date <u>5-22-20</u> Technician/Company <u>Billy Harris / AAA Pumping</u>	Comments
RR5 Grease Trap	
Depth of water column in grease trap :	
Trap by Pot Wash [], 20"	
Trap Under Table [], 20"	
Trap by Office [], 15"	
✓ Trap by Coffee Area, NW [X], 15"	
Depth of FOG (fats, oils, grease)	Inches
Depth of Solids	0 Inches
Is the accumulated FOG and solids occupying greater than 25% of the grease trap capacity	1/2 Inches
Prior to opening is odor from the grease trap present 10' or greater?	Complete
Are the access covers in need of repair?	Yes/No
FOG Passing by grease trap?	Yes/No
Does grease trap need trap repair?	Yes/No
Are there signs the grease trap walls may be deteriorating?	Yes/No
Are there signs the grease trap may be leaking?	Yes/No
Was the grease trap pressure washed?	Yes/No
Inlet Tee, Baffle Wall Elbow and Outlet Tee pressure washed?	Yes/No
Is there any leakage under the baffle wall?	Yes/No
Was all grease removed from walls, ledges and ridges?	Yes/No
Total Gallons pumped out:	20
Location where grease was disposed of:	AAA Pumping Yard - RECYCLED

AAA PUMPING SERVICE, INC.

P.O. BOX 12186 ALBUQUERQUE, NM 87195
Ph: (505) 345-3965 Fax: (505) 243-0314

DISPOSAL
TRIP MANIFEST
73730

WASTE PRODUCER

PRODUCER'S NAME Intel A/S APPROX. GALLONS 150 DATE OF COLLECTION 6/5/20
ADDRESS 4100 SARA Rd
CITY Rio Rancho STATE NM ZIP WASTE TYPE: ☐ SAND OR GRIT ☒ GREASE
RESPON. PERSON X 2M DATE 6/5/20 ☐ OTHER - DESCRIBE

WASTE TRANSPORTER

TRUCK DRIVER'S SIGNATURE X B. Sublette DATE 6/5/20 PERMIT NO. P1
DISPOSAL SITE

AAA Pumping Service Inc
2855 2nd st sw
Albuquerque, NM 87102

MANIFEST MUST BE KEPT ON
PREMISES TO SHOW PROOF OF
PUMPING & LEGAL WASTE DISPOSAL

Responsible person signing for Waste Producer certifies that there is nothing hazardous in the materials being pumped. **AAA PUMPING SERVICE, INC.** reserves the right to file legal action against the Waste Producer for falsification of information.

Rio Rancho Grease Removal Device Report

Inspection Date	Service Date	Technician/Company	Comments
RR5 Grease Trap			
Depth of water column in grease trap :			
Trap by Pot Wash [X], 20"	-		
Trap Under Table [], 20"	-		
Trap by Office [], 15"	-		
Trap by Coffee Area, NW [], 15"			
Depth of FOG (fats, oils, grease)	7	Inches	
Depth of Solids	1	Inches	
Is the accumulated FOG and solids occupying greater than 25% of the grease trap capacity		Yes/No	
Prior to opening is odor from the grease trap present 10' or greater?		Yes/No	
Are the access covers in need of repair?		Yes/No	
FOG Passing by grease trap?		Yes/No	
Does grease trap need trap repair?		Yes/No	
Are there signs the grease trap walls may be deteriorating?		Yes/No	
Are there signs the grease trap may be leaking?		Yes/No	
Was the grease trap pressure washed?		Yes/No	
Inlet Tee, Baffle Wall Elbow and Outlet Tee pressure washed?		Yes/No	
Is there any leakage under the baffle wall?		Yes/No	
Was all grease removed from walls, ledges and ridges?		Yes/No	
Total Gallons pumped out:	50		
Location where grease was disposed of:	AAA Pumping Yard - RECYCLED		

Rio Rancho Grease Removal Device Report

Inspection Date <u>6-5-20</u>	Service Date <u>6-5-20</u>	Technician/Company <u>BILLY HART/AAA PUMPING</u>	Comments
RR5 Grease Trap			
Depth of water column in grease trap :	-		
Trap by Pot Wash [], 20"	-		
Trap Under Table [X], 20"	-		
Trap by Office [], 15"	-		
Trap by Coffee Area, NW [], 15"		Inches	
Depth of FOG (fats, oils, grease)		<u>1/4</u> Inches	
Depth of Solids		<u>1/2</u> Inches	
Is the accumulated FOG and solids occupying greater than 25% of the grease trap capacity		Yes <u>(No)</u>	
Prior to opening is odor from the grease trap present 10' or greater?		Yes <u>(No)</u>	
Are the access covers in need of repair?		Yes <u>(No)</u>	
FOG Passing by grease trap?		Yes <u>(No)</u>	
Does grease trap need trap repair?		Yes <u>(No)</u>	
Are there signs the grease trap walls may be deteriorating?		Yes <u>(No)</u>	
Are there signs the grease trap may be leaking?		Yes <u>(No)</u>	
Was the grease trap pressure washed?		Yes <u>(No)</u>	
Inlet Tee, Baffle Wall Elbow and Outlet Tee pressure washed?		Yes <u>(No)</u>	
Is there any leakage under the baffle wall?		Yes <u>(No)</u>	
Was all grease removed from walls, ledges and ridges?		Yes <u>(No)</u>	
Total Gallons pumped out:		<u>50</u>	
Location where grease was disposed of:		<u>AAA PUMPING YARD - RECYCLED</u>	

Rio Rancho Grease Removal Device Report

Inspection Date	Service Date	Technician/Company	Comments
RR5 Grease Trap			
Depth of water column in grease trap :			
Trap by Pot Wash [], 20"	-		
Trap Under Table [], 20"	-		
Trap by Office [X], 15"	-		
Trap by Coffee Area, NW [], 15"			
Depth of FOG (fats, oils, grease)		Inches	
Depth of Solids		$\frac{1}{8}$ Inches	
		$\frac{1}{4}$ Inches	
Is the accumulated FOG and solids occupying greater than 25% of the grease trap capacity		Yes/No	
Prior to opening is odor from the grease trap present 10' or greater?		Yes/No	
Are the access covers in need of repair?		Yes/No	
FOG Passing by grease trap?		Yes/No	
Does grease trap need trap repair?		Yes/No	
Are there signs the grease trap walls may be deteriorating?		Yes/No	
Are there signs the grease trap may be leaking?		Yes/No	
Was the grease trap pressure washed?		Yes/No	
Inlet Tee, Baffle Wall Elbow and Outlet Tee pressure washed?		Yes/No	
Is there any leakage under the baffle wall?		Yes/No	
Was all grease removed from walls, ledges and ridges?		Yes/No	
Total Gallons pumped out:		20	
Location where grease was disposed of:		AAA PUMPING YARD-RECYCLED	

Rio Rancho Grease Removal Device Report

Inspection Date <u>6-5-20</u>	Service Date <u>6-5-20</u>	Technician/Company <u>BILLY HARRIS / AAA PUMPING</u>	Comments
RR5 Grease Trap			
Depth of water column in grease trap :			
Trap by Pot Wash [], 20"	-		
Trap Under Table [], 20"	-		
Trap by Office [], 15"	-		
Trap by Coffee Area, NW [X], 15"		Inches	
Depth of FOG (fats, oils, grease)		0 Inches	
Depth of Solids		3/4 Inches	
Is the accumulated FOG and solids occupying greater than 25% of the grease trap capacity		Yes/No	
Prior to opening is odor from the grease trap present 10' or greater?		Yes/No	
Are the access covers in need of repair?		Yes/No	
FOG Passing by grease trap?		Yes/No	
Does grease trap need trap repair?		Yes/No	
Are there signs the grease trap walls may be deteriorating?		Yes/No	
Are there signs the grease trap may be leaking?		Yes/No	
Was the grease trap pressure washed?		Yes/No	
Inlet Tee, Baffle Wall Elbow and Outlet Tee pressure washed?		Yes/No	
Is there any leakage under the baffle wall?		Yes/No	
Was all grease removed from walls, ledges and ridges?		Yes/No	
Total Gallons pumped out:		20	
Location where grease was disposed of:		AAA	PUMPING YARD - RECYCLED

AAA PUMPING SERVICE, INC.

P.O. BOX 12186 ALBUQUERQUE, NM 87195
Ph: (505) 345-3965 Fax: (505) 243-0314

DISPOSAL
TRIP MANIFEST
73361

WASTE PRODUCER

PRODUCER'S NAME	<u>Intel LRS</u>	APPROX. GALLONS	<u>150</u>	DATE OF COLLECTION	<u>6/19/20</u>
ADDRESS	<u>400 Sara Rd</u>				
CITY	<u>Richman</u>	STATE	<u>NM</u>	ZIP	
RESP. PERSON	<u>X</u>	DATE	<u>6/19/20</u>		
WASTE TYPE: <input type="checkbox"/> SAND OR GRIT <input type="checkbox"/> GREASE <input type="checkbox"/> OTHER - DESCRIBE _____					

WASTE TRANSPORTER

TRUCK DRIVER'S SIGNATURE	<u>X</u>	DATE	<u>6/19/20</u>	PERMIT NO.	<u>PL</u>
DISPOSAL SITE					

AAA Pumping Service Inc
2855 2nd st sw
Albuquerque, NM 87102

MANIFEST MUST BE KEPT ON
PREMISES TO SHOW PROOF OF
PUMPING & LEGAL WASTE DISPOSAL

Responsible person signing for Waste Producer certifies that there is nothing hazardous in the materials being pumped. **AAA PUMPING SERVICE, INC.** reserves the right to file legal action against the Waste Producer for falsification of information.

Rio Rancho Grease Removal Device Report

Inspection Date <u>6-19-20</u> Service Date <u>6-19-20</u> Technician/Company <u>BLL/HARJO/AAA PUMPING</u>	Comments
RR5 Grease Trap	
Depth of water column in grease trap :	
Trap by Pot Wash <input checked="" type="checkbox"/> , 20"	-
Trap Under Table <input type="checkbox"/> , 20"	-
Trap by Office <input type="checkbox"/> , 15"	-
Trap by Coffee Area, NW <input type="checkbox"/> , 15"	
Depth of FOG (fats, oils, grease)	Inches <u>6</u> Inches
Depth of Solids	<u>2</u> Inches
Is the accumulated FOG and solids occupying greater than 25% of the grease trap capacity	<u>Yes/No</u>
Prior to opening is odor from the grease trap present 10' or greater?	<u>Yes/No</u>
Are the access covers in need of repair?	<u>Yes/No</u>
FOG Passing by grease trap?	<u>Yes/No</u>
Does grease trap need trap repair?	<u>Yes/No</u>
Are there signs the grease trap walls may be deteriorating?	<u>Yes/No</u>
Are there signs the grease trap may be leaking?	<u>Yes/No</u>
Was the grease trap pressure washed?	<u>Yes/No</u>
Inlet Tee, Baffle Wall Elbow and Outlet Tee pressure washed?	<u>Yes/No</u>
Is there any leakage under the baffle wall?	<u>Yes/No</u>
Was all grease removed from walls, ledges and ridges?	<u>Yes/No</u>
Total Gallons pumped out:	<u>50</u>
Location where grease was disposed of:	<u>AAA PUMPING YARD - RECYCLED</u>

Rio Rancho Grease Removal Device Report

Inspection Date <u>6-19-20</u>	Service Date <u>6-19-20</u>	Technician/Company <u>BILLY HARJO / AAA PUMPING</u>
RR5 Grease Trap		
Depth of water column in grease trap :		
Trap by Pot Wash [], 20"	-	
Trap Under Table <input checked="" type="checkbox"/> , 20"	-	
Trap by Office [], 15"	-	
Trap by Coffee Area, NW [], 15"		Inches
Depth of FOG (fats, oils, grease)	<u>1/8</u> Inches	
Depth of Solids	<u>1/2</u> Inches	
Is the accumulated FOG and solids occupying greater than 25% of the grease trap capacity	Yes <input checked="" type="radio"/> No	
Prior to opening is odor from the grease trap present 10' or greater?	Yes <input checked="" type="radio"/> No	
Are the access covers in need of repair?	Yes <input checked="" type="radio"/> No	
FOG Passing by grease trap?	Yes <input checked="" type="radio"/> No	
Does grease trap need trap repair?	Yes <input checked="" type="radio"/> No	
Are there signs the grease trap walls may be deteriorating?	Yes <input checked="" type="radio"/> No	
Are there signs the grease trap may be leaking?	Yes <input checked="" type="radio"/> No	
Was the grease trap pressure washed?	Yes <input checked="" type="radio"/> No	
Inlet Tee, Baffle Wall Elbow and Outlet Tee pressure washed?	Yes <input checked="" type="radio"/> No	
Is there any leakage under the baffle wall?	Yes <input checked="" type="radio"/> No	
Was all grease removed from walls, ledges and ridges?	Yes <input checked="" type="radio"/> No	
Total Gallons pumped out:	<u>50</u>	
Location where grease was disposed of:	<u>AAA PUMPING YARD - RECYCLED</u>	

Rio Rancho Grease Removal Device Report

Inspection Date <u>6-19-20</u>	Service Date <u>6-19-20</u>	Technician/Company <u>BILLY HARJO/AAA PUMPING</u>	Comments
RR5 Grease Trap			
Depth of water column in grease trap :			
Trap by Pot Wash [], 20"	-		
Trap Under Table [], 20"	-		
Trap by Office <input checked="" type="checkbox"/> , 15"	-		
Trap by Coffee Area, NW [], 15"		Inches	
Depth of FOG (fats, oils, grease)		1/32 Inches	
Depth of Solids		1/2 Inches	
Is the accumulated FOG and solids occupying greater than 25% of the grease trap capacity		Yes/No	
Prior to opening is odor from the grease trap present 10' or greater?		Yes/No	
Are the access covers in need of repair?		Yes/No	
FOG Passing by grease trap?		Yes/No	
Does grease trap need trap repair?		Yes/No	
Are there signs the grease trap walls may be deteriorating?		Yes/No	
Are there signs the grease trap may be leaking?		Yes/No	
Was the grease trap pressure washed?		Yes/No	
Inlet Tee, Baffle Wall Elbow and Outlet Tee pressure washed?		Yes/No	
Is there any leakage under the baffle wall?		Yes/No	
Was all grease removed from walls, ledges and ridges?		Yes/No	
Total Gallons pumped out:		20	
Location where grease was disposed of:		AAA PUMPING YARD - RECYCLED	

Rio Rancho Grease Removal Device Report

Inspection Date <u>6-19-20</u>	Service Date <u>6-19-20</u>	Technician/Company <u>BILLY HARJO / AAA PUMPING</u>	Comments
RR5 Grease Trap			
Depth of water column in grease trap :			
Trap by Pot Wash [], 20"			
Trap Under Table [], 20"			
Trap by Office [], 15"			
Trap by Coffee Area, NW <input checked="" type="checkbox"/> , 15"			
Depth of FOG (fats, oils, grease)		Inches	
Depth of Solids		Inches	
Is the accumulated FOG and solids occupying greater than 25% of the grease trap capacity			
Prior to opening is odor from the grease trap present 10' or greater?		Yes/No	
Are the access covers in need of repair?		Yes/No	
FOG Passing by grease trap?		Yes/No	
Does grease trap need trap repair?		Yes/No	
Are there signs the grease trap walls may be deteriorating?		Yes/No	
Are there signs the grease trap may be leaking?		Yes/No	
Was the grease trap pressure washed?		Yes/No	
Inlet Tee, Baffle Wall Elbow and Outlet Tee pressure washed?		Yes/No	
Is there any leakage under the baffle wall?		Yes/No	
Was all grease removed from walls, ledges and ridges?		Yes/No	
Total Gallons pumped out:		<u>20</u>	
Location where grease was disposed of:		<u>AAA PUMPING YARD - RECYCLED</u>	

ATTACHMENT B

Cerium Sampling Reports (December'19-May'20)



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

March 02, 2020

Amy Reed

Intel Corporation

4100 Sara Road

M/S R8-103

Rio Rancho, NM 87124

TEL: (505) 794-4912

FAX:

RE: Intel Outfall Ceria

OrderNo.: 2001038

Dear Amy Reed:

Hall Environmental Analysis Laboratory received 4 sample(s) on 1/2/2020 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,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a horizontal line.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109



18804 North Creek Parkway, Ste 100, Bothell, WA 98011 • USA • T: 206 632 6206 F: 206 632 6017 • info@brooksapplied.com

January 31, 2020

Hall Environmental
ATTN: Andy Freeman
4901 Hawkins NE, Suite D
Albuquerque, NM 87109
Andy@hallenvironmental.com

RE: Project HLL-NM1901

Dear Andy Freeman,

On January 7, 2020, Brooks Applied Labs (BAL) received four (4) aqueous samples. The samples were logged-in for cerium (Ce) analysis according to the chain-of-custody (COC) form. The samples were received and stored according to BAL SOPs and EPA methodology.

It was noted upon receipt of the samples that the custody seal had been ripped in transit. The client was informed, and no further actions were required.

Total Ce Quantitation by ICP-QQQ-MS

All samples were digested on a hotblock via modified EPA Method 1638 with nitric and hydrochloric acids. Cerium was analyzed using inductively coupled plasma triple quadrupole mass spectrometry (ICP-QQQ-MS). The ICP-QQQ-MS uses advanced interference removal techniques to ensure accuracy of the sample results. For more information, please visit the Interference Reduction Technology section on our website, brooksapplied.com.

The results were not method blank corrected as described in the calculations section of the relevant BAL SOPs and were evaluated using reporting limits adjusted to account for sample aliquot size.

All data was reported without qualification and all other associated quality control sample results met the acceptance criteria.

BAL, an accredited laboratory, certifies that the reported results of all analyses for which BAL is NELAP accredited meet all NELAP requirements. For more information please see the *Report Information* page in your report. Please feel free to contact us if you have any questions regarding this report.

Sincerely,

A handwritten signature in black ink that reads 'Lydia Greaves'.

Lydia Greaves
Client Services Manager
Brooks Applied Labs
Lydia@brooksapplied.com

A handwritten signature in black ink that reads 'Jenna Saeedi'.

Jenna Saeedi
Project Coordinator
Brooks Applied Labs
Jenna@brooksapplied.com



Report Information

Laboratory Accreditation

BAL is accredited by the *National Environmental Laboratory Accreditation Program* (NELAP) through the State of Florida Department of Health, Bureau of Laboratories (E87982) and is certified to perform many environmental analyses. BAL is also certified by many other states to perform environmental analyses. For a current list of our accreditations/certifications, please visit our website at <http://www.brooksapplied.com/resources/certificates-permits/>. Results reported relate only to the samples listed in the report.

Field Quality Control Samples

Please be notified that certain EPA methods require the collection of field quality control samples of an appropriate type and frequency; failure to do so is considered a deviation from some methods and for compliance purposes should only be done with the approval of regulatory authorities. Please see the specific EPA methods for details regarding required field quality control samples.

Common Abbreviations

AR	as received	MS	matrix spike
BAL	Brooks Applied Labs	MSD	matrix spike duplicate
BLK	method blank	ND	non-detect
BS	blank spike	NR	non-reportable
CAL	calibration standard	N/C	not calculated
CCB	continuing calibration blank	PS	post preparation spike
CCV	continuing calibration verification	REC	percent recovery
COC	chain of custody record	RPD	relative percent difference
D	dissolved fraction	SCV	secondary calibration verification
DUP	duplicate	SOP	standard operating procedure
IBL	instrument blank	SRM	reference material
ICV	initial calibration verification	T	total fraction
MDL	method detection limit	TR	total recoverable fraction
MRL	method reporting limit		

Definition of Data Qualifiers

(Effective 9/23/09)

E	An estimated value due to the presence of interferences. A full explanation is presented in the narrative.
H	Holding time and/or preservation requirements not met. Please see narrative for explanation.
J	Detected by the instrument, the result is > the MDL but ≤ the MRL. Result is reported and considered an estimate.
J-1	Estimated value. A full explanation is presented in the narrative.
M	Duplicate precision (RPD) was not within acceptance criteria. Please see narrative for explanation.
N	Spike recovery was not within acceptance criteria. Please see narrative for explanation.
R	Rejected, unusable value. A full explanation is presented in the narrative.
U	Result is ≤ the MDL or client requested reporting limit (CRRL). Result reported as the MDL or CRRL.
X	Result is not BLK-corrected and is within 10x the absolute value of the highest detectable BLK in the batch. Result is estimated.

These qualifiers are based on those previously utilized by Brooks Applied Labs, those found in the EPA SOW ILM03.0, Exhibit B, Section III, pg. B-18, and the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review; USEPA; January 2010. These supersede all previous qualifiers ever employed by BAL.

Project ID: HLL-NM1901
PM: Lydia Greaves



BAL Report 2002010
Client PM: Andy Freeman
Client Project: HLL-NM1901

Sample Information

Sample	Alias	Lab ID	Report Matrix	Type	Sampled	Received
2001038-001A	Dec- Cer	2002010-01	Water	Sample	12/02/2019	01/07/2020
2001038-002A	Dec- Cer	2002010-02	Water	Sample	12/09/2019	01/07/2020
2001038-003A	Dec- Cer	2002010-03	Water	Sample	12/16/2019	01/07/2020
2001038-004A	Dec- Cer	2002010-04	Water	Sample	12/23/2019	01/07/2020

Batch Summary

Analyte	Lab Matrix	Method	Prepared	Analyzed	Batch	Sequence
Ce	Water	EPA 1638 Mod	01/17/2020	01/20/2020	B200114	2000092

Project ID: HLL-NM1901
PM: Lydia Greaves



BAL Report 2002010
Client PM: Andy Freeman
Client Project: HLL-NM1901

Sample Results

Sample	Analyte	Report Matrix	Basis	Result	Qualifier	MDL	MRL	Unit	Batch	Sequence
2001038-001A, Dec- Cer 2002010-01	Ce	Water	TR	29.7		0.008	0.080	µg/L	B200114	2000092
2001038-002A, Dec- Cer 2002010-02	Ce	Water	TR	54.7		0.008	0.080	µg/L	B200114	2000092
2001038-003A, Dec- Cer 2002010-03	Ce	Water	TR	110		0.008	0.080	µg/L	B200114	2000092
2001038-004A, Dec- Cer 2002010-04	Ce	Water	TR	160		0.008	0.080	µg/L	B200114	2000092



Accuracy & Precision Summary

Batch: B200114
Lab Matrix: Water
Method: EPA 1638 Mod

Sample	Analyte	Native	Spike	Result	Units	REC & Limits	RPD & Limits
B200114-BS1	Blank Spike, (1940023) Ce		404.0	405.7	µg/L	100% 75-125	
B200114-DUP2	Duplicate, (2002010-01) Ce	29.72		34.46	µg/L		15% 20
B200114-MS2	Matrix Spike, (2002010-01) Ce	29.72	404.0	455.4	µg/L	105% 75-125	
B200114-MSD2	Matrix Spike Duplicate, (2002010-01) Ce	29.72	404.0	464.0	µg/L	107% 75-125	2% 20

Method Blanks & Reporting Limits

Batch: B200114
Matrix: Water
Method: EPA 1638 Mod
Analyte: Ce

Sample	Result	Units
B200114-BLK1	0.001	µg/L
B200114-BLK2	-0.0001	µg/L
B200114-BLK3	0.0005	µg/L
B200114-BLK4	0.0001	µg/L
Average: 0.000		MDL: 0.008
Limit: 0.081		MRL: 0.081

Project ID: HLL-NM1901
PM: Lydia Greaves



BAL Report 2002010
Client PM: Andy Freeman
Client Project: HLL-NM1901

Sample Containers

Lab ID: 2002010-01 Sample: 2001038-001A			Report Matrix: Water Sample Type: Sample			Collected: 12/02/2019 Received: 01/07/2020	
Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Client-Provided	250mL	n/a	1mL HNO3 (client)	n/a	<2	Cooler - 2002010
Lab ID: 2002010-02 Sample: 2001038-002A			Report Matrix: Water Sample Type: Sample			Collected: 12/09/2019 Received: 01/07/2020	
Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Client-Provided	250mL	n/a	1mL HNO3 (client)	n/a	<2	Cooler - 2002010
Lab ID: 2002010-03 Sample: 2001038-003A			Report Matrix: Water Sample Type: Sample			Collected: 12/16/2019 Received: 01/07/2020	
Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Client-Provided	250mL	n/a	1mL HNO3 (client)	n/a	<2	Cooler - 2002010
Lab ID: 2002010-04 Sample: 2001038-004A			Report Matrix: Water Sample Type: Sample			Collected: 12/23/2019 Received: 01/07/2020	
Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Client-Provided	250mL	n/a	1mL HNO3 (client)	n/a	<2	Cooler - 2002010

Shipping Containers

Cooler - 2002010

Received: January 7, 2020 12:30
Tracking No: 777405577214 via FedEx
Coolant Type: Blue Ice
Temperature: 2.2 °C

Description: Cooler
Damaged in transit? No
Returned to client? No
Comments: IR# 19

Custody seals present? Yes
Custody seals intact? No
COC present? Yes

SUB CONTRACTOR: Brooks Applied Lab		COMPANY: Brooks Applied Lab		PHONE: (206) 632-6206		FAX:	
ADDRESS: 18804 Northcreek Parkway, Ste 100				ACCOUNT #:		EMAIL:	
CITY, STATE, ZIP: Bothell, WA 98011							

ITEM	SAMPLE	CLIENT SAMPLE ID	BOTTLE TYPE	MATRIX	COLLECTION DATE	# CONTAINERS	ANALYTICAL COMMENTS
1	2001038-001A	Dec- Cer	250HDPEHN	Aqueous	12/2/2019 9:00:00 AM	1	Cerium
2	2001038-002A	Dec- Cer	250HDPEHN	Aqueous	12/9/2019 9:00:00 AM	1	Cerium
3	2001038-003A	Dec- Cer	250HDPEHN	Aqueous	12/16/2019 9:00:00 AM	1	Cerium
4	2001038-004A	Dec- Cer	250HDPEHN	Aqueous	12/23/2019 9:00:00 AM	1	Cerium

SPECIAL INSTRUCTIONS / COMMENTS:

Please include the LAB ID and the CLIENT SAMPLE ID on all final reports. Please e-mail results to lab@hallenvironmental.com. Please return all coolers and blue ice. Thank you.

Relinquished By: <i>[Signature]</i>	Date: 1/2/2020	Time: 3:19 PM	Received By: <i>[Signature]</i>	Date: 1/7/20	Time: 12:30	REPORT TRANSMITTAL DESIRED: <input type="checkbox"/> HARDCOPY (extra cost) <input type="checkbox"/> FAX <input type="checkbox"/> EMAIL <input type="checkbox"/> ONLINE	
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	FOR LAB USE ONLY	
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	Temp of samples _____ °C Attempt to Cool ? _____	
TAT: Standard <input checked="" type="checkbox"/> RUSH <input type="checkbox"/> Next BD <input type="checkbox"/> 2nd BD <input type="checkbox"/> 3rd BD <input type="checkbox"/>						Comments: _____	

Sample Log-In Check List

Client Name: Intel Corp

Work Order Number: 2001038

RcptNo: 1

Received By: Juan Rojas 1/2/2020 1:55:00 PM

Completed By: Yazmine Garduno 1/2/2020 2:49:56 PM

Reviewed By: DAD 1/2/20

Yazmine Garduno

Chain of Custody

1. Is Chain of Custody sufficiently complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
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 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 broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
13. Is it clear what analyses were requested? Yes ☒ No ☐
14. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

of preserved
bottles checked
for pH: 4
(<2 or >12 unless noted)

Adjusted? NO

Checked by: JR 1/2/20

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:		Date:	
By Whom:		Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:			
Client Instructions:			

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	20.8	Good				



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

March 16, 2020

Amy Reed
Intel Corporation
4100 Sara Road
M/S R8-103
Rio Rancho, NM 87124
TEL: (505) 794-4912
FAX

RE: Monthly Ceria

OrderNo.: 2002190

Dear Amy Reed:

Hall Environmental Analysis Laboratory received 4 sample(s) on 2/5/2020 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,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109



18804 North Creek Parkway, Ste 100, Bothell, WA 98011 • USA • T: 206 632 6206 F: 206 632 6017 • info@brooksapplied.com

March 11, 2020

Hall Environmental
ATTN: Andy Freeman
4901 Hawkins NE, Suite D
Albuquerque, NM 87109
Andy@hallenvironmental.com

RE: Project HLL-NM1901

Dear Andy Freeman,

On February 12, 2020, Brooks Applied Labs (BAL) received fifteen (15) aqueous and five (5) sediment samples. The samples were logged-in for cerium (Ce) analysis according to the chain-of-custody (COC) form. The samples were received and stored according to BAL SOPs and EPA methodology.

It was noted upon receipt of the samples that the custody seal had been ripped in transit. No actions were required.

Samples labelled as Monthly Ceria were reported separately as 2007026-A. The remaining samples were reported as 2007026-B.

Total Ce Quantitation by ICP-QQQ-MS

All aqueous samples were digested on a hotblock via modified EPA Method 1638 with nitric and hydrochloric acids. Cerium was analyzed using inductively coupled plasma triple quadrupole mass spectrometry (ICP-QQQ-MS). The ICP-QQQ-MS uses advanced interference removal techniques to ensure accuracy of the sample results. For more information, please visit the Interference Reduction Technology section on our website, brooksapplied.com.

The results were not method blank corrected as described in the calculations section of the relevant BAL SOPs and were evaluated using reporting limits adjusted to account for sample aliquot size.

All data was reported without qualification and all other associated quality control sample results met the acceptance criteria.

BAL, an accredited laboratory, certifies that the reported results of all analyses for which BAL is NELAP accredited meet all NELAP requirements. For more information please see the *Report Information* page in your report. Please feel free to contact us if you have any questions regarding this report.

Sincerely,



Lydia Greaves
Client Services Manager
Brooks Applied Labs
Lydia@brooksapplied.com



Jenna Saeedi
Project Coordinator
Brooks Applied Labs
Jenna@brooksapplied.com



Report Information

Laboratory Accreditation

BAL is accredited by the *National Environmental Laboratory Accreditation Program* (NELAP) through the State of Florida Department of Health, Bureau of Laboratories (E87982) and is certified to perform many environmental analyses. BAL is also certified by many other states to perform environmental analyses. For a current list of our accreditations/certifications, please visit our website at <http://www.brooksapplied.com/resources/certificates-permits/>. Results reported relate only to the samples listed in the report.

Field Quality Control Samples

Please be notified that certain EPA methods require the collection of field quality control samples of an appropriate type and frequency; failure to do so is considered a deviation from some methods and for compliance purposes should only be done with the approval of regulatory authorities. Please see the specific EPA methods for details regarding required field quality control samples.

Common Abbreviations

AR	as received	MS	matrix spike
BAL	Brooks Applied Labs	MSD	matrix spike duplicate
BLK	method blank	ND	non-detect
BS	blank spike	NR	non-reportable
CAL	calibration standard	N/C	not calculated
CCB	continuing calibration blank	PS	post preparation spike
CCV	continuing calibration verification	REC	percent recovery
COC	chain of custody record	RPD	relative percent difference
D	dissolved fraction	SCV	secondary calibration verification
DUP	duplicate	SOP	standard operating procedure
IBL	instrument blank	SRM	reference material
ICV	initial calibration verification	T	total fraction
MDL	method detection limit	TR	total recoverable fraction
MRL	method reporting limit		

Definition of Data Qualifiers

(Effective 9/23/09)

E	An estimated value due to the presence of interferences. A full explanation is presented in the narrative.
H	Holding time and/or preservation requirements not met. Please see narrative for explanation.
J	Detected by the instrument, the result is > the MDL but ≤ the MRL. Result is reported and considered an estimate.
J-1	Estimated value. A full explanation is presented in the narrative.
M	Duplicate precision (RPD) was not within acceptance criteria. Please see narrative for explanation.
N	Spike recovery was not within acceptance criteria. Please see narrative for explanation.
R	Rejected, unusable value. A full explanation is presented in the narrative.
U	Result is ≤ the MDL or client requested reporting limit (CRRL). Result reported as the MDL or CRRL.
X	Result is not BLK-corrected and is within 10x the absolute value of the highest detectable BLK in the batch. Result is estimated.

These qualifiers are based on those previously utilized by Brooks Applied Labs, those found in the EPA SOW ILM03.0, Exhibit B, Section III, pg. B-18, and the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review; USEPA; January 2010. These supersede all previous qualifiers ever employed by BAL.



Sample Information

Sample	Alias	Lab ID	Report Matrix	Type	Sampled	Received
2002190-001A	Monthly Ceria	2007026-01	Aqueous	Sample	01/06/2020	02/12/2020
2002190-002A	Monthly Ceria	2007026-02	Aqueous	Sample	01/13/2020	02/12/2020
2002190-003A	Monthly Ceria	2007026-03	Aqueous	Sample	01/20/2020	02/12/2020
2002190-004A	Monthly Ceria	2007026-04	Aqueous	Sample	01/27/2020	02/12/2020

Batch Summary

Analyte	Lab Matrix	Method	Prepared	Analyzed	Batch	Sequence
Ce	Water	EPA 1638 Mod	02/18/2020	02/23/2020	B200519	2000258

Sample Results

Sample	Analyte	Report Matrix	Basis	Result	Qualifier	MDL	MRL	Unit	Batch	Sequence
2002190-001A, Monthly Ceria										
2007026-01	Ce	Aqueous	TR	62.5		0.008	0.080	µg/L	B200519	2000258
2002190-002A, Monthly Ceria										
2007026-02	Ce	Aqueous	TR	38.8		0.008	0.080	µg/L	B200519	2000258
2002190-003A, Monthly Ceria										
2007026-03	Ce	Aqueous	TR	66.9		0.008	0.080	µg/L	B200519	2000258
2002190-004A, Monthly Ceria										
2007026-04	Ce	Aqueous	TR	19.0		0.008	0.080	µg/L	B200519	2000258



Accuracy & Precision Summary

Batch: B200519
Lab Matrix: Water
Method: EPA 1638 Mod

Sample	Analyte	Native	Spike	Result	Units	REC & Limits	RPD & Limits
B200519-BS1	Blank Spike, (1940023) Ce		400.0	386.6	µg/L	97% 75-125	
B200519-DUP1	Duplicate, (2007026-01) Ce	62.51		66.68	µg/L		6% 20
B200519-MS1	Matrix Spike, (2007026-01) Ce	62.51	400.0	478.1	µg/L	104% 75-125	
B200519-MSD1	Matrix Spike Duplicate, (2007026-01) Ce	62.51	400.0	489.7	µg/L	107% 75-125	2% 20

Method Blanks & Reporting Limits

Batch: B200519
Matrix: Water
Method: EPA 1638 Mod
Analyte: Ce

Sample	Result	Units
B200519-BLK1	0.0006	µg/L
B200519-BLK2	-0.0001	µg/L
B200519-BLK3	-0.0001	µg/L
B200519-BLK4	0.00009	µg/L
Average: 0.000		MDL: 0.008
Limit: 0.080		MRL: 0.080

Project ID: HLL-NM1901
PM: Lydia Greaves



BAL Report 2007026-A
Client PM: Andy Freeman
Client Project: HLL-NM1901

Sample Containers

Lab ID: 2007026-01 Sample: 2002190-001A			Report Matrix: Aqueous Sample Type: Sample			Collected: 01/06/2020 Received: 02/12/2020	
Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Client-Provided	125 mL	n/a	Unk. HNO3 (Client)	n/a	<2	Cooler - 2007026
Lab ID: 2007026-02 Sample: 2002190-002A			Report Matrix: Aqueous Sample Type: Sample			Collected: 01/13/2020 Received: 02/12/2020	
Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Client-Provided	125 mL	n/a	Unk. HNO3 (Client)	n/a	<2	Cooler - 2007026
Lab ID: 2007026-03 Sample: 2002190-003A			Report Matrix: Aqueous Sample Type: Sample			Collected: 01/20/2020 Received: 02/12/2020	
Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Client-Provided	125 mL	n/a	Unk. HNO3 (Client)	n/a	<2	Cooler - 2007026
Lab ID: 2007026-04 Sample: 2002190-004A			Report Matrix: Aqueous Sample Type: Sample			Collected: 01/27/2020 Received: 02/12/2020	
Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Client-Provided	125 mL	n/a	Unk. HNO3 (Client)	n/a	<2	Cooler - 2007026

Shipping Containers

Cooler - 2007026

Received: February 12, 2020 9:56
Tracking No: 7777 4433 9820 via FedEx
Coolant Type: Blue Ice
Temperature: 3.9 °C

Description: Cooler
Damaged in transit? No
Returned to client? No
Comments: IR #20

Custody seals present? Yes
Custody seals intact? No
COC present? Yes

SUB CONTRACTOR: Brooks Applied Lab		COMPANY: Brooks Applied Lab		PHONE: (206) 632-6206		FAX:	
ADDRESS: 18804 Northcreek Parkway, Ste 100				ACCOUNT #:		EMAIL:	
CITY, STATE, ZIP: Bothell, WA 98011							

ITEM	SAMPLE	CLIENT SAMPLE ID	BOTTLE TYPE	MATRIX	COLLECTION DATE	# CONTAINERS	ANALYTICAL COMMENTS
1	2002190-001A	Monthly Ceria	125HDP	Aqueous	1/6/2020 9:00:00 AM	1	Cerium
2	2002190-002A	Monthly Ceria	125HDP	Aqueous	1/13/2020 9:00:00 AM	1	Cerium
3	2002190-003A	Monthly Ceria	125HDP	Aqueous	1/20/2020 9:00:00 AM	1	Cerium
4	2002190-004A	Monthly Ceria	125HDP	Aqueous	1/27/2020 9:00:00 AM	1	Cerium

2504X103
At 02/07/20

SPECIAL INSTRUCTIONS / COMMENTS:

Please include the LAB ID and the CLIENT SAMPLE ID on all final reports. Please e-mail results to lab@hallenvironmental.com. Please return all coolers and blue ice. Thank you.

Relinquished By: <i>[Signature]</i>	Date: 2/5/2020	Time: 3:07 PM	Received By: <i>[Signature]</i>	Date: 2/12/20	Time: 1:56	REPORT TRANSMITTAL DESIRED: <input type="checkbox"/> HARDCOPY (extra cost) <input type="checkbox"/> FAX <input type="checkbox"/> EMAIL <input type="checkbox"/> ONLINE FOR LAB USE ONLY Temp of samples _____ °C Attempt to Cool? _____ Comments: _____
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	
TAT: Standard <input checked="" type="checkbox"/> RUSH Next BD <input type="checkbox"/> 2nd BD <input type="checkbox"/> 3rd BD <input type="checkbox"/>						



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: Intel Corp

Work Order Number: 2002190

RcptNo: 1

Received By: Yazmine Garduno 2/5/2020 2:13:00 PM

Yazmine Garduno

Completed By: Yazmine Garduno 2/5/2020 3:01:59 PM

Yazmine Garduno

Reviewed By: *JR 2/5/20*

Chain of Custody

1. Is Chain of Custody sufficiently complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☐ No ☒ NA ☐
5. Sample(s) in proper container(s)? Yes ☒ No ☐ Not required
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly 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 broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
13. Is it clear what analyses were requested? Yes ☒ No ☐
14. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

of preserved
bottles checked
for pH: 4

(<2 or >12 unless noted)

Adjusted? NO

Checked by: JO 2/5/20

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: _____ Date: _____
By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding: _____
Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	20.0	Good				

Chain-of-Custody Record					
Turn-Around Time:					
<input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush					
Project Name:					
Monthly CERIA					
Project #:					
Project Manager:					
Amy Reed					
Sampler:					
On Ice: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No					
# of Coolers: 1					
Cooler Temp (including CP): 70.0 W-D-70.0°C					
		Container Type and #		Preservative Type	
Date	Time	Matrix	Sample Name	HEAL No.	
4/16/20	0900	W	MONTHLY CERIA	2002490	
				-001	
4/15/20	0900	W	MONTHLY CERIA	-002	
4/16/20	0900	W	MONTHLY CERIA	-003	
4/16/20	0900	W	MONTHLY CERIA	-004	
Date: #		Relinquished by:		Received by:	
4/16/20	1130 AM	Amy Reed		Via:	Date
SPOKE	1000	Kerstin Bannar		Time	
Date:	Time:	Relinquished by:		Received by:	
4/16/20	1130 AM	Amy Reed		Date	Time
SPOKE	1000	Kerstin Bannar		Date	Time

Turn-Around Time: ☒ Standard ☐ Rush

Project Name: Monthly CERVA

Project #:

Project Manager: *Amy Reed*

Sampler:		
On Ice:	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
# of Coolers:		

Cooler Temp (including CF): $20.0 - 1.0 = 19.0 (^{\circ}\text{C})$

Container Type and #	Preservative Type	HEAL No.
		2052490

14ND3	-001
-------	------

[illegible]

1403	-003
------	------

if no 3	-004
---------	------

Received by:	Via:	Date	Time

Received by:	Via:	Date	Time
Received by:	Via:	Date	Time

W. Carter 25th 143

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

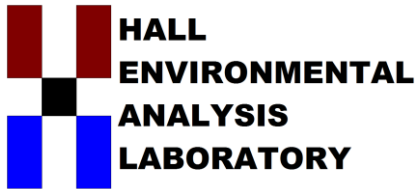
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

[illegible]

Remarks:

Remarks: Please send lab results to tpeacock@ABCWIA.org as well. Submit Intel Ceria sample's with ABCWIA ceria samples sent to the lab on 2/15/20 as well.



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

May 19, 2020

Amy Reed
Intel Corporation
4100 Sara Road
M/S R8-103
Rio Rancho, NM 87124
TEL: (505) 794-4912
FAX:

RE: Monthly Ceria

OrderNo.: 2003339

Dear Amy Reed:

Hall Environmental Analysis Laboratory received 4 sample(s) on 3/4/2020 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,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109



18804 North Creek Parkway, Ste 100, Bothell, WA 98011 • USA • T: 206 632 6206 F: 206 632 6017 • info@brooksapplied.com

April 8, 2020

Hall Environmental
ATTN: Andy Freeman
4901 Hawkins NE, Suite D
Albuquerque, NM 87109
Andy@hallenvironmental.com

RE: Project HLL-NM1901

Dear Andy Freeman,

On March 11, 2020, Brooks Applied Labs (BAL) received four (4) aqueous samples. The samples were logged-in for cerium (Ce) analysis according to the chain-of-custody (COC) form. The samples were received and stored according to BAL SOPs and EPA methodology.

Total Ce Quantitation by ICP-QQQ-MS

All samples were digested on a hotblock via modified EPA Method 1638 with nitric and hydrochloric acids. Cerium was analyzed using inductively coupled plasma triple quadrupole mass spectrometry (ICP-QQQ-MS). The ICP-QQQ-MS uses advanced interference removal techniques to ensure accuracy of the sample results. For more information, please visit the Interference Reduction Technology section on our website, brooksapplied.com.

The results were not method blank corrected as described in the calculations section of the relevant BAL SOPs and were evaluated using reporting limits adjusted to account for sample aliquot size.

All data was reported without qualification and all other associated quality control sample results met the acceptance criteria.

BAL, an accredited laboratory, certifies that the reported results of all analyses for which BAL is NELAP accredited meet all NELAP requirements. For more information please see the *Report Information* page in your report. Please feel free to contact us if you have any questions regarding this report.

Sincerely,

A handwritten signature in black ink, appearing to read 'ARoyal'.

Amanda Royal
Senior Project Manager
Brooks Applied Labs
Amanda@brooksapplied.com

A handwritten signature in black ink, appearing to read 'Don Moran'.

Don Moran
Project Coordinator
Brooks Applied Labs
Don@brooksapplied.com



Report Information

Laboratory Accreditation

BAL is accredited by the *National Environmental Laboratory Accreditation Program* (NELAP) through the State of Florida Department of Health, Bureau of Laboratories (E87982) and is certified to perform many environmental analyses. BAL is also certified by many other states to perform environmental analyses. For a current list of our accreditations/certifications, please visit our website at <http://www.brooksapplied.com/resources/certificates-permits/>. Results reported relate only to the samples listed in the report.

Field Quality Control Samples

Please be notified that certain EPA methods require the collection of field quality control samples of an appropriate type and frequency; failure to do so is considered a deviation from some methods and for compliance purposes should only be done with the approval of regulatory authorities. Please see the specific EPA methods for details regarding required field quality control samples.

Common Abbreviations

AR	as received	MS	matrix spike
BAL	Brooks Applied Labs	MSD	matrix spike duplicate
BLK	method blank	ND	non-detect
BS	blank spike	NR	non-reportable
CAL	calibration standard	N/C	not calculated
CCB	continuing calibration blank	PS	post preparation spike
CCV	continuing calibration verification	REC	percent recovery
COC	chain of custody record	RPD	relative percent difference
D	dissolved fraction	SCV	secondary calibration verification
DUP	duplicate	SOP	standard operating procedure
IBL	instrument blank	SRM	reference material
ICV	initial calibration verification	T	total fraction
MDL	method detection limit	TR	total recoverable fraction
MRL	method reporting limit		

Definition of Data Qualifiers

(Effective 9/23/09)

E	An estimated value due to the presence of interferences. A full explanation is presented in the narrative.
H	Holding time and/or preservation requirements not met. Please see narrative for explanation.
J	Detected by the instrument, the result is > the MDL but ≤ the MRL. Result is reported and considered an estimate.
J-1	Estimated value. A full explanation is presented in the narrative.
M	Duplicate precision (RPD) was not within acceptance criteria. Please see narrative for explanation.
N	Spike recovery was not within acceptance criteria. Please see narrative for explanation.
R	Rejected, unusable value. A full explanation is presented in the narrative.
U	Result is ≤ the MDL or client requested reporting limit (CRRL). Result reported as the MDL or CRRL.
X	Result is not BLK-corrected and is within 10x the absolute value of the highest detectable BLK in the batch. Result is estimated.

These qualifiers are based on those previously utilized by Brooks Applied Labs, those found in the EPA SOW ILM03.0, Exhibit B, Section III, pg. B-18, and the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review; USEPA; January 2010. These supersede all previous qualifiers ever employed by BAL.



Sample Information

Sample	Lab ID	Report Matrix	Type	Sampled	Received
2003339-001A	2011032-01	Water	Sample	02/03/2020	03/11/2020
2003339-002A	2011032-02	Water	Sample	02/10/2020	03/11/2020
2003339-003A	2011032-03	Water	Sample	02/17/2020	03/11/2020
2003339-004A	2011032-04	Water	Sample	02/24/2020	03/11/2020

Batch Summary

Analyte	Lab Matrix	Method	Prepared	Analyzed	Batch	Sequence
Ce	Water	EPA 1638 Mod	03/24/2020	03/27/2020	B200960	2000435

Sample Results

Sample	Analyte	Report Matrix	Basis	Result	Qualifier	MDL	MRL	Unit	Batch	Sequence
2003339-001A										
2011032-01	Ce	Water	TR	55.1		0.008	0.080	µg/L	B200960	2000435
2003339-002A										
2011032-02	Ce	Water	TR	70.6		0.008	0.080	µg/L	B200960	2000435
2003339-003A										
2011032-03	Ce	Water	TR	59.0		0.008	0.080	µg/L	B200960	2000435
2003339-004A										
2011032-04	Ce	Water	TR	281		0.008	0.080	µg/L	B200960	2000435



Accuracy & Precision Summary

Batch: B200960
Lab Matrix: Water
Method: EPA 1638 Mod

Sample	Analyte	Native	Spike	Result	Units	REC & Limits	RPD & Limits
B200960-BS1	Blank Spike, (1940023) Ce		400.0	313.3	µg/L	78% 75-125	
B200960-DUP2	Duplicate, (2011032-01) Ce	55.09		47.09	µg/L		16% 20
B200960-MS2	Matrix Spike, (2011032-01) Ce	55.09	400.0	373.9	µg/L	80% 75-125	
B200960-MSD2	Matrix Spike Duplicate, (2011032-01) Ce	55.09	400.0	395.0	µg/L	85% 75-125	5% 20

Method Blanks & Reporting Limits

Batch: B200960
Matrix: Water
Method: EPA 1638 Mod
Analyte: Ce

Sample	Result	Units
B200960-BLK1	-0.003	µg/L
B200960-BLK2	-0.003	µg/L
B200960-BLK3	-0.003	µg/L
B200960-BLK4	-0.003	µg/L
Average:	-0.003	
Limit:	0.080	
	MDL:	0.008
	MRL:	0.080



Sample Containers

Lab ID: 2011032-01 Sample: 2003339-001A Des Container A Client-Provided - TM	Size n/a	Lot n/a	Report Matrix: Water Sample Type: Sample Preservation HNO3 (Client)	P-Lot n/a	Collected: 02/03/2020 Received: 03/11/2020 pH Ship. Cont. <2 Cooler - 2011032
Lab ID: 2011032-02 Sample: 2003339-002A Des Container A Client-Provided - TM	Size n/a	Lot n/a	Report Matrix: Water Sample Type: Sample Preservation HNO3 (Client)	P-Lot n/a	Collected: 02/10/2020 Received: 03/11/2020 pH Ship. Cont. <2 Cooler - 2011032
Lab ID: 2011032-03 Sample: 2003339-003A Des Container A Client-Provided - TM	Size n/a	Lot n/a	Report Matrix: Water Sample Type: Sample Preservation HNO3 (Client)	P-Lot n/a	Collected: 02/17/2020 Received: 03/11/2020 pH Ship. Cont. <2 Cooler - 2011032
Lab ID: 2011032-04 Sample: 2003339-004A Des Container A Client-Provided - TM	Size n/a	Lot n/a	Report Matrix: Water Sample Type: Sample Preservation HNO3 (Client)	P-Lot n/a	Collected: 02/24/2020 Received: 03/11/2020 pH Ship. Cont. <2 Cooler - 2011032

Shipping Containers

Cooler - 2011032

Received: March 11, 2020 9:50
Tracking No: 7779 8315 5824 via FedEx
Coolant Type: Blue Ice
Temperature: 2.0 °C

Description: Cooler
Damaged in transit? No
Returned to client? No
Comments: IR #19

Custody seals present? Yes
Custody seals intact? Yes
COC present? Yes

Sample Receipt Chain of Custody

Instructions: Initial and date for each step performed. Write N/A if not applicable.

Workorder: 2011032	Project Manager: Amanda
Labeled: DSR 3/11/20	
pH checked: DSR 3/11/20 pH 1	
Preserved: N/A	
Time:	
Syringe filtered:	
Time: N/A	
Poured off/split: N/A	
Stored: DSR 3/11/20	
Other (specify:): N/A	
Non-conformance notes: N/A	
Initial/date: DSR 3/11/20	

SUB CONTRACTOR: Brooks Applied Lab		COMPANY: Brooks Applied Lab		PHONE: (206) 632-6206		FAX:	
ADDRESS: 18804 Northcreek Parkway, Ste 100				ACCOUNT #:		EMAIL:	
CITY, STATE, ZIP: Bothell, WA 98011							

ITEM	SAMPLE	CLIENT SAMPLE ID	BOTTLE TYPE	MATRIX	COLLECTION DATE	# CONTAINERS	ANALYTICAL COMMENTS
1	2003339-001A	Feb-Ceria	125HDPHNO	Aqueous	2/3/2020 9:00:00 AM	1	Cerium
2	2003339-002A	Feb-Ceria	125HDPHNO	Aqueous	2/7/2020 9:00:00 AM	1	Cerium
3	2003339-003A	Feb-Ceria	125HDPHNO	Aqueous	2/17/2020 9:00:00 AM	1	Cerium
4	2003339-004A	Feb-Ceria	125HDPHNO	Aqueous	2/24/2020 9:00:00 AM	1	Cerium

SPECIAL INSTRUCTIONS / COMMENTS:

Please include the LAB ID and the CLIENT SAMPLE ID on all final reports. Please e-mail results to lab@hallenvironmental.com. Please return all coolers and blue ice. Thank you.

Relinquished By: <i>LB</i>	Date: 3/9/2020	Time: 9:21 AM	Received By: <i>[Signature]</i>	Date: 03/11/20	Time: 09:50	REPORT TRANSMITTAL DESIRED: <input type="checkbox"/> HARDCOPY (extra cost) <input type="checkbox"/> FAX <input type="checkbox"/> EMAIL <input type="checkbox"/> ONLINE FOR LAB USE ONLY Temp of samples _____ °C Attempt to Cool ? _____ Comments: _____
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	
TAT: <u>Standard</u> <input type="checkbox"/> RUSH Next BD <input type="checkbox"/> 2nd BD <input type="checkbox"/> 3rd BD <input type="checkbox"/>						

ORIGIN ID: ABQA (505) 345-3975
ANNE THORNE
HALL ENVIRONMENTAL
4901 HAWKINS NE

ALBUQUERQUE, NM 87109
UNITED STATES US

SHIP DATE: 10MAR20
ACTWGT: 28.00 LB
CAD: 1717027/INET4220

BILL SENDER

TO **SAMPLE RECEIVING**
BROOKS APPLIED LAB
18804 NORTHCREEK PARKWAY STE 100

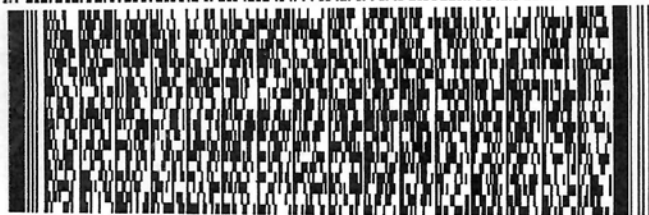
BOTHELL WA 98011

(206) 632-6206

REF:

INV:

DEPT:



FedEx
Express



TRK# **7779 8315 5824**
0201

WED - 11 MAR 10:30A
PRIORITY OVERNIGHT

XH PAEA

98011
WA-US SEA



Sample Receipt Checklist:

BAL Report 2011032

Container Type:

- ☒ Cooler
- ☐ Cardboard box
- ☐ Styrofoam cooler
- ☐ Other (Specify):
- ☒ Custody Seal Present?
Custody Seal Intact? Y/N
- ☒ Chain of Custody Present?

Coolant Type:

IR#: 19

- ☐ None
- ☒ Blue Ice: 20 °C
- ☐ Ice: _____ °C
- ☐ Dry Ice: _____ °C
- ☐ Temp Blank: _____ °C
- Corrected Temp: _____ °C

Bottle Type:

- ☒ Client Provided
- ☐ Other :
Size / Type:
Lot:
Preservation:
Preservative Lot:
- ☐ Other :
Size / Type:
Lot:
Preservation:
Preservative Lot:
- ☐ Other :
Size / Type:
Lot:
Preservation:
Preservative Lot:

Initial/date: EN 03/11/20

Sample Log-In Check List

Client Name: Intel Corp

Work Order Number: 2003339

RcptNo: 1

Received By: Anne Thorne

3/4/2020 1:52:00 PM

Anne Thorne

Completed By: Leah Baca

3/9/2020 9:17:04 AM

Leah Baca

Reviewed By: ENH

3/9/20

Chain of Custody

1. Is Chain of Custody sufficiently complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☐ No ☒ NA ☐
4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☐ No ☒ NA ☐
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 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 broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
13. Is it clear what analyses were requested? Yes ☒ No ☐
14. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

of preserved bottles checked for pH: 4
(~~2~~ or >12 unless noted)
Adjusted? NO
Checked by: DAD 3/9/20

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: _____ Date: _____
By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding: _____
Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	22.9	Good				

if necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.



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

May 12, 2020

Amy Reed
Intel Corporation
4100 Sara Road
M/S R8-103
Rio Rancho, NM 87124
TEL: (505) 794-4912
FAX:

RE: Monthly Ceria

OrderNo.: 2004029

Dear Amy Reed:

Hall Environmental Analysis Laboratory received 5 sample(s) on 3/30/2020 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,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a light blue horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109



18804 North Creek Parkway, Ste 100, Bothell, WA 98011 • USA • T: 206 632 6206 F: 206 632 6017 • info@brooksapplied.com

May 12, 2020

Hall Environmental
ATTN: Andy Freeman
4901 Hawkins NE, Suite D
Albuquerque, NM 87109
Andy@hallenvironmental.com

RE: Project HLL-NM1901

Dear Andy Freeman,

On April 10, 2020, Brooks Applied Labs (BAL) received five (5) aqueous samples. The samples were logged-in for cerium (Ce) analysis according to the chain-of-custody (COC) form. The samples were received and stored according to BAL SOPs and EPA methodology.

Total Ce Quantitation by ICP-QQQ-MS

All samples were digested on a hotblock via modified EPA Method 1638 with nitric and hydrochloric acids. Cerium was analyzed using inductively coupled plasma triple quadrupole mass spectrometry (ICP-QQQ-MS). The ICP-QQQ-MS uses advanced interference removal techniques to ensure accuracy of the sample results. For more information, please visit the Interference Reduction Technology section on our website, brooksapplied.com.

The results were not method blank corrected as described in the calculations section of the relevant BAL SOPs and were evaluated using reporting limits adjusted to account for sample aliquot size.

All data was reported without qualification and all other associated quality control sample results met the acceptance criteria.

BAL, an accredited laboratory, certifies that the reported results of all analyses for which BAL is NELAP accredited meet all NELAP requirements. For more information please see the *Report Information* page in your report. Please feel free to contact us if you have any questions regarding this report.

Sincerely,

A handwritten signature in black ink that reads 'A Royal'.

Amanda Royal
Senior Project Manager
Brooks Applied Labs
Amanda@brooksapplied.com

A handwritten signature in black ink that reads 'Don Moran'.

Don Moran
Project Coordinator
Brooks Applied Labs
Don@brooksapplied.com



Report Information

Laboratory Accreditation

BAL is accredited by the *National Environmental Laboratory Accreditation Program* (NELAP) through the State of Florida Department of Health, Bureau of Laboratories (E87982) and is certified to perform many environmental analyses. BAL is also certified by many other states to perform environmental analyses. For a current list of our accreditations/certifications, please visit our website at <http://www.brooksapplied.com/resources/certificates-permits/> or review Tables 1 and 2 in our Accreditation Information. Results reported relate only to the samples listed in the report.

Field Quality Control Samples

Please be notified that certain EPA methods require the collection of field quality control samples of an appropriate type and frequency; failure to do so is considered a deviation from some methods and for compliance purposes should only be done with the approval of regulatory authorities. Please see the specific EPA methods for details regarding required field quality control samples.

Common Abbreviations

AR	as received	MS	matrix spike
BAL	Brooks Applied Labs	MSD	matrix spike duplicate
BLK	method blank	ND	non-detect
BS	blank spike	NR	non-reportable
CAL	calibration standard	N/C	not calculated
CCB	continuing calibration blank	PS	post preparation spike
CCV	continuing calibration verification	REC	percent recovery
COC	chain of custody record	RPD	relative percent difference
D	dissolved fraction	SCV	secondary calibration verification
DUP	duplicate	SOP	standard operating procedure
IBL	instrument blank	SRM	reference material
ICV	initial calibration verification	T	total fraction
MDL	method detection limit	TR	total recoverable fraction
MRL	method reporting limit		

Definition of Data Qualifiers

(Effective 3/23/2020)

E	An estimated value due to the presence of interferences. A full explanation is presented in the narrative.
H	Holding time and/or preservation requirements not met. Please see narrative for explanation.
J	Detected by the instrument, the result is > the MDL but ≤ the MRL. Result is reported and considered an estimate.
J-1	Estimated value. A full explanation is presented in the narrative.
M	Duplicate precision (RPD) was not within acceptance criteria. Please see narrative for explanation.
N	Spike recovery was not within acceptance criteria. Please see narrative for explanation.
R	Rejected, unusable value. A full explanation is presented in the narrative.
U	Result is ≤ the MDL or client requested reporting limit (CRRL). Result reported as the MDL or CRRL.
X	Result is not BLK-corrected and is within 10x the absolute value of the highest detectable BLK in the batch. Result is estimated.
Z	Holding time and/or preservation requirements not established for this method; however, BAL recommendations for holding time were not followed. Please see narrative for explanation.

These qualifiers are based on those previously utilized by Brooks Applied Labs, those found in the EPA SOW ILM03.0, Exhibit B, Section III, pg. B-18, and the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review; USEPA; January 2010. These supersede all previous qualifiers ever employed by BAL.



Accreditation Information

Table 1. Accredited method/matrix/analytes for TNI
Issued by: State of Florida Dept. of Health (The NELAC Institute 2016 Standard)
Issued on: July 1, 2019; Valid to: June 30, 2020
Certificate Number: E87982-33

Method	Matrix	TNI Accredited Analyte(s)
EPA 1638	Non-Potable Waters	Ag, Cd, Cu, Ni, Pb, Sb, Se, Tl, Zn
EPA 200.8	Non-Potable Waters	Ag, Al, As, Ba, Be, Cd, Co, Cr, Cu, Mn, Mo, Ni, Pb, Sb, Se, Tl, U, V, Zn
EPA 6020	Non-Potable Waters	Ag, Al, As, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, Mg, Mn, Mo, Ni, Pb, Sb, Se, Tl, U, V, Zn
	Solids/Chemicals & Biological	Ag, Al, As, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, Mg, Mn, Mo, Ni, Pb, Sb, Se, Tl, V, Zn
BAL-5000	Non-Potable Waters	Ag, Al, As, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, Mg, Mn, Mo, Ni, Pb, Sb, Se, Sn, Sr, Tl, U, V, Zn, Hardness
	Solids/Chemicals	Ag, As, B, Be, Cd, Co, Cr, Cu, Pb, Mo, Ni, Sb, Se, Sn, Sr, Tl, V, Zn
	Biological	Ag, Al, As, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, Mg, Mn, Mo, Ni, Pb, Sb, Se, Sn, Tl, V, Zn
EPA 1640	Non-Potable Waters	Ag, As, Cd, Cu, Pb, Ni, Zn
EPA 1631E	Non-Potable Waters, Solids/Chemicals & Biological	Total Mercury
EPA 1630	Non-Potable Waters	Methyl Mercury
BAL-3200	Solids/Chemicals & Biological	Methyl Mercury
EPA 1632A	Non-Potable Waters	Inorganic Arsenic, As(III)
	Biological	Inorganic Arsenic
BAL-4100	Non-Potable Waters	As(III), As(V), DMAs, MMAs
BAL-4200	Non-Potable Waters	Se(IV), Se(VI)
BAL-4201	Non-Potable Waters	Se(IV), Se(VI)
BAL-4300	Non-Potable Waters Solid/Chemicals	Cr(VI)
SM2340B	Non-Potable Waters	Hardness



Accreditation Information

Table 2. Accredited method/matrix/analytes for ISO (1), Non-Governmental TNI (2), and DoD/DOE (3)

Issued by: ANAB

Issued on: January 10, 2020; Valid to: March 30, 2022

Method	Matrix	ISO and Non-Gov. TNI Accredited Analyte(s)	DoD/DOE Accredited Analytes
EPA 1638 Mod EPA 200.8 Mod EPA 6020 Mod BAL-5000	Non-Potable Waters	Ag, Al, As, B, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, Mg, Mn, Mo, Ni, Pb, Sb, Se, Sn, Sr, Tl, U, V, Zn	Ag, Al, As, Ba, Ca, Cd, Cr, Cu, Fe, Pb, Mg, Mn, Ni, Sb, Se, V, Zn
	Solids/Chemicals & Biological	Ag, Al, As, B, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, Mg, Mn, Mo, Ni, Pb, Sb, Se, Sn, Sr, Tl, V, Zn	Ag, As, Cd, Cr, Cu, Pb, Ni, Se, Zn
EPA 1640 Mod	Non-Potable Waters	Ag, As, Be, Cd, Cr, Co, Cu, Pb, Ni, Se, Tl, V, Zn	Not Accredited
EPA 1631E Mod BAL-3100 (waters) BAL-3101 (solids)	Non-Potable Waters, Solids/Chemicals & Biological/Food	Total Mercury	Total Mercury
EPA 1630 Mod BAL-3200	Non-Potable Waters, Solids/Chemicals Biological	Methyl Mercury	Methyl Mercury (excluding Solids/Chemicals)
EPA 1632A Mod BAL-3300	Non-Potable Waters Solids/Chemicals	Inorganic Arsenic, As(III)	Inorganic Arsenic. As(III) for waters only.
	Biological/Food	Inorganic Arsenic	Inorganic Arsenic (excluding Food)
AOAC 2015.01 Mod BAL-5000 by BAL-5040	Food	As, Cd, Hg, Pb	Not Accredited
BAL-4100	Non-Potable Waters	As(III), As(V), DMAs, MMAs	Not Accredited
	Biological by BAL-4115	Inorganic Arsenic, DMAs, MMAs	Not Accredited
BAL-4101	Food by BAL-4116	Inorganic Arsenic, DMAs, MMAs	Not Accredited
BAL-4200	Non-Potable Waters	Se(IV), Se(VI), SeCN	Not Accredited
BAL-4201	Non-Potable Waters	Se(IV), Se(VI), SeCN, SeMet	Not Accredited
BAL-4300	Non-Potable Waters, Solid/Chemicals	Cr(VI)	Cr(VI)
SM 3500-Fe BAL-4500	Non-Potable Waters	Fe, Fe(II)	Not Accredited
SM2340B	Non-Potable Waters	Hardness	Hardness
SM 2540G EPA 160.3 BAL-0501	Solids/Chemicals & Biological	% Dry Weight	% Dry Weight

(1) ISO/IEC 17025:2017 – Certificate Number ADE-1447.2

(2) Non-Governmental NELAC Institute 2016 Standard – Certificate Number ADE-1447.1

(3) Department of Defense/Energy Consolidated Quality Systems Manual v. 5.3 – Certificate Numbers ADE-1447 for DoD, ADE-1447.3 for DOE.



Sample Information

Sample	Lab ID	Report Matrix	Type	Sampled	Received
Mar Ceria 2004029-001A	2015055-01	Water	Sample	03/02/2020	04/10/2020
Mar Ceria 2004029-002A	2015055-02	Water	Sample	03/09/2020	04/10/2020
Mar Ceria 2004029-003A	2015055-03	Water	Sample	03/16/2020	04/10/2020
Mar Ceria 2004029-004A	2015055-04	Water	Sample	03/23/2020	04/10/2020
Mar Ceria 2004029-005A	2015055-05	Water	Sample	03/30/2020	04/10/2020

Batch Summary

Analyte	Lab Matrix	Method	Prepared	Analyzed	Batch	Sequence
Ce	Water	EPA 1638 Mod	04/15/2020	04/16/2020	B201137	2000518



Sample Results

Sample	Analyte	Report Matrix	Basis	Result	Qualifier	MDL	MRL	Unit	Batch	Sequence
Mar Ceria 2004029-001A										
2015055-01	Ce	Water	TR	120		0.078	0.156	µg/L	B201137	2000518
Mar Ceria 2004029-002A										
2015055-02	Ce	Water	TR	52.4		0.078	0.156	µg/L	B201137	2000518
Mar Ceria 2004029-003A										
2015055-03	Ce	Water	TR	109		0.078	0.156	µg/L	B201137	2000518
Mar Ceria 2004029-004A										
2015055-04	Ce	Water	TR	36.6		0.078	0.156	µg/L	B201137	2000518
Mar Ceria 2004029-005A										
2015055-05	Ce	Water	TR	106		0.078	0.156	µg/L	B201137	2000518



Accuracy & Precision Summary

Batch: B201137
Lab Matrix: Water
Method: EPA 1638 Mod

Sample	Analyte	Native	Spike	Result	Units	REC & Limits	RPD & Limits
B201137-BS1	Blank Spike, (1940023) Ce		400.0	341.0	µg/L	85% 75-125	
B201137-DUP1	Duplicate, (2015055-05) Ce	106.1		102.4	µg/L		4% 20
B201137-MS1	Matrix Spike, (2015055-05) Ce	106.1	400.0	489.1	µg/L	96% 75-125	
B201137-MSD1	Matrix Spike Duplicate, (2015055-05) Ce	106.1	400.0	484.3	µg/L	95% 75-125	1% 20

Method Blanks & Reporting Limits

Batch: B201137
Matrix: Water
Method: EPA 1638 Mod
Analyte: Ce

Sample	Result	Units
B201137-BLK1	0.0006	µg/L
B201137-BLK2	0.0003	µg/L
B201137-BLK3	0.0003	µg/L
B201137-BLK4	0.044	µg/L

Average: 0.011
Limit: 0.156

MDL: 0.078
MRL: 0.156



Sample Containers

Lab ID: 2015055-01 Sample: Mar Ceria 2004029-001A			Report Matrix: Water Sample Type: Sample		Collected: 03/02/2020 Received: 04/10/2020	
Des	Container	Size	Lot	Preservation	P-Lot	pH Ship. Cont.
A	Client-Provided	250 mL	n/a	Unk HNO3 (Client)	n/a	<2 Cooler - 2015055
Lab ID: 2015055-02 Sample: Mar Ceria 2004029-002A			Report Matrix: Water Sample Type: Sample		Collected: 03/09/2020 Received: 04/10/2020	
Des	Container	Size	Lot	Preservation	P-Lot	pH Ship. Cont.
A	Client-Provided	250 mL	n/a	Unk HNO3 (Client)	n/a	<2 Cooler - 2015055
Lab ID: 2015055-03 Sample: Mar Ceria 2004029-003A			Report Matrix: Water Sample Type: Sample		Collected: 03/16/2020 Received: 04/10/2020	
Des	Container	Size	Lot	Preservation	P-Lot	pH Ship. Cont.
A	Client-Provided	250 mL	n/a	Unk HNO3 (Client)	n/a	<2 Cooler - 2015055
Lab ID: 2015055-04 Sample: Mar Ceria 2004029-004A			Report Matrix: Water Sample Type: Sample		Collected: 03/23/2020 Received: 04/10/2020	
Des	Container	Size	Lot	Preservation	P-Lot	pH Ship. Cont.
A	Client-Provided	250 mL	n/a	Unk HNO3 (Client)	n/a	<2 Cooler - 2015055
Lab ID: 2015055-05 Sample: Mar Ceria 2004029-005A			Report Matrix: Water Sample Type: Sample		Collected: 03/30/2020 Received: 04/10/2020	
Des	Container	Size	Lot	Preservation	P-Lot	pH Ship. Cont.
A	Client-Provided	250 mL	n/a	Unk HNO3 (Client)	n/a	<2 Cooler - 2015055

Project ID: HLL-NM1901
PM: Amanda Royal



BAL Report 2015055
Client PM: Andy Freeman
Client Project: HLL-NM1901

Shipping Containers

Cooler - 2015055

Received: April 10, 2020 10:00
Tracking No: 7702 1097 0242 via FedEx
Coolant Type: Blue Ice
Temperature: 1.9 °C

Description: Cooler
Damaged in transit? No
Returned to client? No
Comments: IR #19

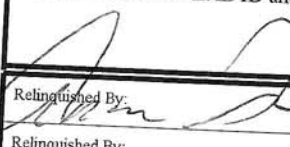
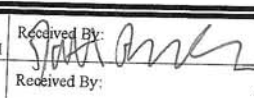
Custody seals present? Yes
Custody seals intact? Yes
COC present? Yes

SUB CONTRACTOR: Brooks Applied Lab		COMPANY: Brooks Applied Lab		PHONE: (206) 632-6206		FAX:	
ADDRESS: 18804 Northcreek Parkway, Ste 100				ACCOUNT #:		EMAIL:	
CITY, STATE, ZIP: Bothell, WA 98011							

ITEM	SAMPLE	CLIENT SAMPLE ID	BOTTLE TYPE	MATRIX	COLLECTION DATE	# CONTAINERS	ANALYTICAL COMMENTS
1	2004029-001A	Mar-Ceria	250HDPEHN 03	Aqueous	3/2/2020 9:00:00 AM	1	CERIUM
2	2004029-002A	Mar-Ceria	250HDPEHN 03	Aqueous	3/9/2020 9:00:00 AM	1	CERIUM
3	2004029-003A	Mar-Ceria	250HDPEHN 03	Aqueous	3/16/2020 9:00:00 AM	1	CERIUM
4	2004029-004A	Mar-Ceria	250HDPEHN 03	Aqueous	3/23/2020 9:00:00 AM	1	CERIUM
5	2004029-005A	Mar-Ceria	125HDPHNO 3	Aqueous	3/30/2020 9:00:00 AM	1	CERIUM

SPECIAL INSTRUCTIONS / COMMENTS:

Please include the LAB ID and the CLIENT SAMPLE ID on all final reports. Please e-mail results to lab@hallenvironmental.com. Please return all coolers and blue ice. Thank you.

Relinquished By: 	Date: 4/3/2020	Time: 11:43 AM	Received By: 	Date: 4/10/20	Time: 16:00
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

TAT: Standard ☒ RUSH ☐ Next BD ☐ 2nd BD ☐ 3rd BD ☐

REPORT TRANSMITTAL DESIRED:

☐ HARDCOPY (extra cost) ☐ FAX ☐ EMAIL ☐ ONLINE

FOR LAB USE ONLY

Temp of samples _____ °C Attempt to Cool? _____

Comments: _____

SRW

TC: 7: 7

Sample Receipt Checklist:

ORIGIN ID: ABQA (505) 345-3975
 ANNE THORNE
 HALL ENVIRONMENTAL
 4901 HAWKINS NE

SHIP DATE: 09APR20
 ACTWGT: 19.00 LB
 CAD: 1717027/INET4220

ALBUQUERQUE, NM 87109
 UNITED STATES US

BILL SENDER

TO **SAMPLE RECEIVING**
BROOKS APPLIED LAB
18804 NORTHCREEK PARKWAY STE 100

BOTHELL WA 98011

(206) 632-6206

REF:

INV:

PO:

DEPT:

56BL39C25FE4A

Container Type:

- ☒ Cooler
☐ Cardboard box
☐ Styrofoam cooler
☐ Other (Specify):

- ☒ Custody Seal Present?
 Custody Seal Intact? Y/N
☒ Chain of Custody Present?

Coolant Type:

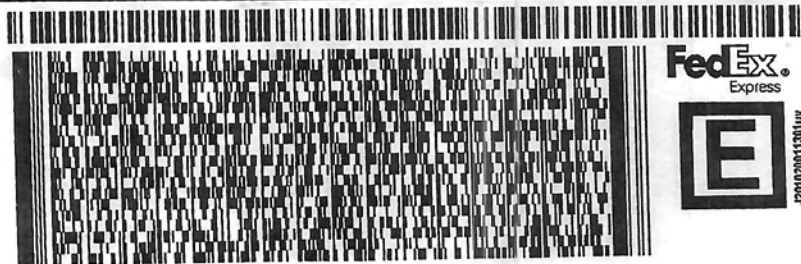
IR#: 19

- ☐ None
☒ Blue Ice: 1.9 °C
☐ Ice: _____ °C
☐ Dry Ice: _____ °C
☐ Temp Blank: _____ °C
 Corrected Temp: _____ °C

Bottle Type:

- ☒ Client Provided
☐ Other :
 Size / Type:
 Lot:
 Preservation:
 Preservative Lot:
☐ Other :
 Size / Type:
 Lot:
 Preservation:
 Preservative Lot:
☐ Other :
 Size / Type:
 Lot:
 Preservation:
 Preservative Lot:

FedEx Ship Manager - Print Your Label(s)

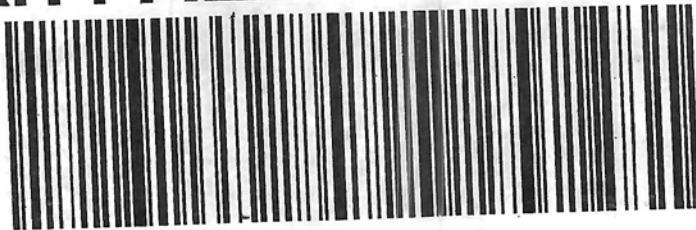


FRI - 10 APR 10:30A
 PRIORITY OVERNIGHT

TRK# 7702 1097 0242
 0201

XH PAEA

98011
 WA-US SEA





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: Intel Corp

Work Order Number: 2004029

RcptNo: 1

Received By: Leah Baca

3/30/2020 1:00:00 PM

Completed By: John Caldwell

4/1/2020 1:11:33 PM

Reviewed By: DAD 4/1/20

Leah Baca
John Caldwell

Chain of Custody

1. Is Chain of Custody sufficiently 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 $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
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 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 broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
13. Is it clear what analyses were requested? Yes ☒ No ☐
14. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

of preserved
bottles checked
for pH: 5
(≤ 2 or >12 unless noted)

Adjusted? NO

Checked by: JO 04/01/20

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:

Date:

By Whom:

Via:

☐ eMail

☐ Phone

☐ Fax

☐ In Person

Regarding:

Client Instructions:

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	23.1	Good				

www.hallenvironmental.com

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Chain-of-Custody Record				Turn-Around Time:		
Client: INTEL		<input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush				
Mailing Address:				Project Name:		
				MONTHLY CERIA		
Phone #: 972-658-1758				Project #:		
email or Fax#: amy.reed@intel.com						
QA/QC Package:				Project Manager:		
<input type="checkbox"/> Standard <input type="checkbox"/> Level 4 (Full Validation)				AMY REED		
Accreditation: <input type="checkbox"/> Az Compliance <input type="checkbox"/> Other <input type="checkbox"/> NELAC <input type="checkbox"/> Other				Sampler: On Ice: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
<input checked="" type="checkbox"/> EDD (Type) NORMAL				# of Coolers: 1		
				Cooler Temp (including CP): 23.1 + 0.5 = 23.1 (°C)		
Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
3/2/20	0900	W	MAR-CERIA			2004029
						-001
3/4/20	0900	W	MAR-CERIA			-002
3/4/20	0900	W	MAR-CERIA			-003
3/23/20	0900	W	MAR-CERIA			-004
3/30/20	0900	W	MAR-CERIA			-005
Date: 3/30/20 Time: 1300 Relinquished by: KEN CLERBAN				Received by: LAMAR Date: 3/30/20 Time: 1300		
Date: 3/30/20 Time: 1300 Relinquished by:				Received by: Date: Time:		

if necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.



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

June 09, 2020

Amy Reed
Intel Corporation
4100 Sara Road
M/S R8-103
Rio Rancho, NM 87124
TEL: (505) 794-4912
FAX:

RE: Cerium

OrderNo.: 2005245

Dear Amy Reed:

Hall Environmental Analysis Laboratory received 4 sample(s) on 5/6/2020 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,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a light blue horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109



18804 North Creek Parkway, Ste 100, Bothell, WA 98011 • USA • T: 206 632 6206 F: 206 632 6017 • info@brooksapplied.com

June 8, 2020

Hall Environmental
ATTN: Andy Freeman
4901 Hawkins NE, Suite D
Albuquerque, NM 87109
Andy@hallenvironmental.com

RE: Project HLL-NM1901

Dear Andy Freeman,

On May 8, 2020, Brooks Applied Labs (BAL) received four (4) aqueous samples. The samples were logged-in for cerium (Ce) analysis according to the chain-of-custody (COC) form. The samples were received and stored according to BAL SOPs and EPA methodology.

Total Ce Quantitation by ICP-QQQ-MS

All samples were digested on a hotblock via modified EPA Method 1638 with nitric and hydrochloric acids. Cerium was analyzed using inductively coupled plasma triple quadrupole mass spectrometry (ICP-QQQ-MS). The ICP-QQQ-MS uses advanced interference removal techniques to ensure accuracy of the sample results. For more information, please visit the Interference Reduction Technology section on our website, brooksapplied.com.

The results were not method blank corrected as described in the calculations section of the relevant BAL SOPs and were evaluated using reporting limits adjusted to account for sample aliquot size.

All data was reported without qualification and all other associated quality control sample results met the acceptance criteria.

BAL, an accredited laboratory, certifies that the reported results of all analyses for which BAL is NELAP accredited meet all NELAP requirements. For more information please see the *Report Information* page in your report. Please feel free to contact us if you have any questions regarding this report.

Sincerely,

A handwritten signature in black ink, appearing to read 'ARoyal'.

Amanda Royal
Senior Project Manager
Brooks Applied Labs
Amanda@brooksapplied.com

A handwritten signature in black ink, appearing to read 'Don Moran'.

Don Moran
Project Coordinator
Brooks Applied Labs
Don@brooksapplied.com



Report Information

Laboratory Accreditation

BAL is accredited by the *National Environmental Laboratory Accreditation Program* (NELAP) through the State of Florida Department of Health, Bureau of Laboratories (E87982) and is certified to perform many environmental analyses. BAL is also certified by many other states to perform environmental analyses. For a current list of our accreditations/certifications, please visit our website at <http://www.brooksapplied.com/resources/certificates-permits/> or review Tables 1 and 2 in our Accreditation Information. Results reported relate only to the samples listed in the report.

Field Quality Control Samples

Please be notified that certain EPA methods require the collection of field quality control samples of an appropriate type and frequency; failure to do so is considered a deviation from some methods and for compliance purposes should only be done with the approval of regulatory authorities. Please see the specific EPA methods for details regarding required field quality control samples.

Common Abbreviations

AR	as received	MS	matrix spike
BAL	Brooks Applied Labs	MSD	matrix spike duplicate
BLK	method blank	ND	non-detect
BS	blank spike	NR	non-reportable
CAL	calibration standard	N/C	not calculated
CCB	continuing calibration blank	PS	post preparation spike
CCV	continuing calibration verification	REC	percent recovery
COC	chain of custody record	RPD	relative percent difference
D	dissolved fraction	SCV	secondary calibration verification
DUP	duplicate	SOP	standard operating procedure
IBL	instrument blank	SRM	reference material
ICV	initial calibration verification	T	total fraction
MDL	method detection limit	TR	total recoverable fraction
MRL	method reporting limit		

Definition of Data Qualifiers

(Effective 3/23/2020)

E	An estimated value due to the presence of interferences. A full explanation is presented in the narrative.
H	Holding time and/or preservation requirements not met. Please see narrative for explanation.
J	Detected by the instrument, the result is > the MDL but ≤ the MRL. Result is reported and considered an estimate.
J-1	Estimated value. A full explanation is presented in the narrative.
M	Duplicate precision (RPD) was not within acceptance criteria. Please see narrative for explanation.
N	Spike recovery was not within acceptance criteria. Please see narrative for explanation.
R	Rejected, unusable value. A full explanation is presented in the narrative.
U	Result is ≤ the MDL or client requested reporting limit (CRRL). Result reported as the MDL or CRRL.
X	Result is not BLK-corrected and is within 10x the absolute value of the highest detectable BLK in the batch. Result is estimated.
Z	Holding time and/or preservation requirements not established for this method; however, BAL recommendations for holding time were not followed. Please see narrative for explanation.

These qualifiers are based on those previously utilized by Brooks Applied Labs, those found in the EPA SOW ILM03.0, Exhibit B, Section III, pg. B-18, and the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review; USEPA; January 2010. These supersede all previous qualifiers ever employed by BAL.



Accreditation Information

Table 1. Accredited method/matrix/analytes for TNI
Issued by: State of Florida Dept. of Health (The NELAC Institute 2016 Standard)
Issued on: July 1, 2019; Valid to: June 30, 2020
Certificate Number: E87982-33

Method	Matrix	TNI Accredited Analyte(s)
EPA 1638	Non-Potable Waters	Ag, Cd, Cu, Ni, Pb, Sb, Se, Tl, Zn
EPA 200.8	Non-Potable Waters	Ag, Al, As, Ba, Be, Cd, Co, Cr, Cu, Mn, Mo, Ni, Pb, Sb, Se, Tl, U, V, Zn
EPA 6020	Non-Potable Waters	Ag, Al, As, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, Mg, Mn, Mo, Ni, Pb, Sb, Se, Tl, U, V, Zn
	Solids/Chemicals & Biological	Ag, Al, As, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, Mg, Mn, Mo, Ni, Pb, Sb, Se, Tl, V, Zn
BAL-5000	Non-Potable Waters	Ag, Al, As, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, Mg, Mn, Mo, Ni, Pb, Sb, Se, Sn, Sr, Tl, U, V, Zn, Hardness
	Solids/Chemicals	Ag, As, B, Be, Cd, Co, Cr, Cu, Pb, Mo, Ni, Sb, Se, Sn, Sr, Tl, V, Zn
	Biological	Ag, Al, As, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, Mg, Mn, Mo, Ni, Pb, Sb, Se, Sn, Tl, V, Zn
EPA 1640	Non-Potable Waters	Ag, As, Cd, Cu, Pb, Ni, Zn
EPA 1631E	Non-Potable Waters, Solids/Chemicals & Biological	Total Mercury
EPA 1630	Non-Potable Waters	Methyl Mercury
BAL-3200	Solids/Chemicals & Biological	Methyl Mercury
EPA 1632A	Non-Potable Waters	Inorganic Arsenic, As(III)
	Biological	Inorganic Arsenic
BAL-4100	Non-Potable Waters	As(III), As(V), DMAs, MMAs
BAL-4200	Non-Potable Waters	Se(IV), Se(VI)
BAL-4201	Non-Potable Waters	Se(IV), Se(VI)
BAL-4300	Non-Potable Waters Solid/Chemicals	Cr(VI)
SM2340B	Non-Potable Waters	Hardness



Accreditation Information

Table 2. Accredited method/matrix/analytes for ISO (1), Non-Governmental TNI (2), and DoD/DOE (3)

Issued by: ANAB

Issued on: January 10, 2020; Valid to: March 30, 2022

Method	Matrix	ISO and Non-Gov. TNI Accredited Analyte(s)	DoD/DOE Accredited Analytes
EPA 1638 Mod EPA 200.8 Mod EPA 6020 Mod BAL-5000	Non-Potable Waters	Ag, Al, As, B, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, Mg, Mn, Mo, Ni, Pb, Sb, Se, Sn, Sr, Tl, U, V, Zn	Ag, Al, As, Ba, Ca, Cd, Cr, Cu, Fe, Pb, Mg, Mn, Ni, Sb, Se, V, Zn
	Solids/Chemicals & Biological	Ag, Al, As, B, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, Mg, Mn, Mo, Ni, Pb, Sb, Se, Sn, Sr, Tl, V, Zn	Ag, As, Cd, Cr, Cu, Pb, Ni, Se, Zn
EPA 1640 Mod	Non-Potable Waters	Ag, As, Be, Cd, Cr, Co, Cu, Pb, Ni, Se, Tl, V, Zn	Not Accredited
EPA 1631E Mod BAL-3100 (waters) BAL-3101 (solids)	Non-Potable Waters, Solids/Chemicals & Biological/Food	Total Mercury	Total Mercury
EPA 1630 Mod BAL-3200	Non-Potable Waters, Solids/Chemicals Biological	Methyl Mercury	Methyl Mercury (excluding Solids/Chemicals)
EPA 1632A Mod BAL-3300	Non-Potable Waters Solids/Chemicals	Inorganic Arsenic, As(III)	Inorganic Arsenic. As(III) for waters only.
	Biological/Food	Inorganic Arsenic	Inorganic Arsenic (excluding Food)
AOAC 2015.01 Mod BAL-5000 by BAL-5040	Food	As, Cd, Hg, Pb	Not Accredited
BAL-4100	Non-Potable Waters	As(III), As(V), DMAs, MMAs	Not Accredited
	Biological by BAL-4115	Inorganic Arsenic, DMAs, MMAs	Not Accredited
BAL-4101	Food by BAL-4116	Inorganic Arsenic, DMAs, MMAs	Not Accredited
BAL-4200	Non-Potable Waters	Se(IV), Se(VI), SeCN	Not Accredited
BAL-4201	Non-Potable Waters	Se(IV), Se(VI), SeCN, SeMet	Not Accredited
BAL-4300	Non-Potable Waters, Solid/Chemicals	Cr(VI)	Cr(VI)
SM 3500-Fe BAL-4500	Non-Potable Waters	Fe, Fe(II)	Not Accredited
SM2340B	Non-Potable Waters	Hardness	Hardness
SM 2540G EPA 160.3 BAL-0501	Solids/Chemicals & Biological	% Dry Weight	% Dry Weight

(1) ISO/IEC 17025:2017 – Certificate Number ADE-1447.2

(2) Non-Governmental NELAC Institute 2016 Standard – Certificate Number ADE-1447.1

(3) Department of Defense/Energy Consolidated Quality Systems Manual v. 5.3 – Certificate Numbers ADE-1447 for DoD, ADE-1447.3 for DOE.



Sample Information

Sample	Lab ID	Report Matrix	Type	Sampled	Received
2005245-001A	2019053-01	Water	Sample	04/06/2020	05/08/2020
2005245-002A	2019053-02	Water	Sample	04/13/2020	05/08/2020
2005245-003A	2019053-03	Water	Sample	04/20/2020	05/08/2020
2005245-004A	2019053-04	Water	Sample	04/27/2020	05/08/2020

Batch Summary

Analyte	Lab Matrix	Method	Prepared	Analyzed	Batch	Sequence
Ce	Water	EPA 1638 Mod	05/14/2020	05/15/2020	B201382	2000653

Sample Results

Sample	Analyte	Report Matrix	Basis	Result	Qualifier	MDL	MRL	Unit	Batch	Sequence
2005245-001A										
2019053-01	Ce	Water	TR	296		0.080	0.160	µg/L	B201382	2000653
2005245-002A										
2019053-02	Ce	Water	TR	103		0.080	0.160	µg/L	B201382	2000653
2005245-003A										
2019053-03	Ce	Water	TR	271		0.080	0.160	µg/L	B201382	2000653
2005245-004A										
2019053-04	Ce	Water	TR	271		0.080	0.160	µg/L	B201382	2000653



Accuracy & Precision Summary

Batch: B201382
Lab Matrix: Water
Method: EPA 1638 Mod

Sample	Analyte	Native	Spike	Result	Units	REC & Limits	RPD & Limits
B201382-BS1	Blank Spike, (1940023) Ce		400.0	384.1	µg/L	96% 75-125	
B201382-DUP2	Duplicate, (2019053-01) Ce	296.2		328.9	µg/L		10% 20
B201382-MS2	Matrix Spike, (2019053-01) Ce	296.2	400.0	677.4	µg/L	95% 75-125	
B201382-MSD2	Matrix Spike Duplicate, (2019053-01) Ce	296.2	400.0	707.6	µg/L	103% 75-125	4% 20

Method Blanks & Reporting Limits

Batch: B201382
Matrix: Water
Method: EPA 1638 Mod
Analyte: Ce

Sample	Result	Units
B201382-BLK1	-0.0008	µg/L
B201382-BLK2	-0.001	µg/L
B201382-BLK3	-0.001	µg/L
B201382-BLK4	0.045	µg/L
Average: 0.011		MDL: 0.080
Limit: 0.160		MRL: 0.160



Sample Containers

Lab ID: 2019053-01 Sample: 2005245-001A Des Container A Client-Provided	Size 250 mL	Lot n/a	Report Matrix: Water Sample Type: Sample Preservation HNO# (Client)	P-Lot n/a	Collected: 04/06/2020 Received: 05/08/2020 pH <2 Ship. Cont. Cooler - 2019053
Lab ID: 2019053-02 Sample: 2005245-002A Des Container A Client-Provided	Size 250 mL	Lot n/a	Report Matrix: Water Sample Type: Sample Preservation HNO# (Client)	P-Lot n/a	Collected: 04/13/2020 Received: 05/08/2020 pH <2 Ship. Cont. Cooler - 2019053
Lab ID: 2019053-03 Sample: 2005245-003A Des Container A Client-Provided	Size 250 mL	Lot n/a	Report Matrix: Water Sample Type: Sample Preservation HNO# (Client)	P-Lot n/a	Collected: 04/20/2020 Received: 05/08/2020 pH <2 Ship. Cont. Cooler - 2019053
Lab ID: 2019053-04 Sample: 2005245-004A Des Container A Client-Provided	Size 250 mL	Lot n/a	Report Matrix: Water Sample Type: Sample Preservation HNO# (Client)	P-Lot n/a	Collected: 04/27/2020 Received: 05/08/2020 pH <2 Ship. Cont. Cooler - 2019053

Shipping Containers

Cooler - 2019053

Received: May 8, 2020 10:20
Tracking No: 7704 1401 0254 via FedEx
Coolant Type: Ice
Temperature: 5.4 °C

Description: Cooler
Damaged in transit? No
Returned to client? No
Comments: IR #19

Custody seals present? Yes
Custody seals intact? Yes
COC present? Yes



CHAIN OF CUSTODY RECORD

PAGE: 1 OF: 1

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

SUB CONTRACTOR: Brooks Applied Labs		COMPANY: Brooks Applied Labs		PHONE: (206) 632-6206		FAX: (206) 632-6017	
ADDRESS: 18804 North Creek Pkwy, Ste 100				ACCOUNT #:		EMAIL:	
CITY, STATE, ZIP: Bothell, WA 98011							
ITEM	SAMPLE	CLIENT SAMPLE ID	BOTTLE TYPE	MATRIX	COLLECTION DATE	# CONTAINERS	ANALYTICAL COMMENTS
1	2005245-001A	APR-Ceria	250HDPEHN 03	Aqueous	4/6/2020 9:00:00 AM	1	CERIUM
2	2005245-002A	APR-Ceria	250HDPEHN 03	Aqueous	4/13/2020 9:00:00 AM	1	CERIUM
3	2005245-003A	APR-Ceria	250HDPEHN 03	Aqueous	4/20/2020 9:00:00 AM	1	CERIUM
4	2005245-004A	APR-Ceria	250HDPEHN 03	Aqueous	4/27/2020 9:00:00 AM	1	CERIUM

SPECIAL INSTRUCTIONS / COMMENTS:

Please include the LAB ID and the CLIENT SAMPLE ID on all final reports. Please e-mail results to lab@hallenvironmental.com. Please return all coolers and blue ice. Thank you.

Relinquished By:	Date: 5/6/2020	Time: 3:11 PM	Received By:	Date: 5/8/20	Time: 10:10	REPORT TRANSMITTAL DESIRED: <input type="checkbox"/> HARDCOPY (extra cost) <input type="checkbox"/> FAX <input type="checkbox"/> EMAIL <input type="checkbox"/> ONLINE	
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	FOR LAB USE ONLY	
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	Temp of samples _____ °C Attempt to Cool? _____	
TAT: Standard <input checked="" type="checkbox"/> RUSH <input type="checkbox"/> Next BD <input type="checkbox"/> 2nd BD <input type="checkbox"/> 3rd BD <input type="checkbox"/>						Comments: _____	

Sample Receipt Checklist:

Container Type:

- ☒ Cooler
☐ Cardboard box
☐ Styrofoam cooler
☐ Other (Specify):

☒ Custody Seal Present?

Custody Seal Intact? ☒ Y ☐ N

☒ Chain of Custody Present?

Coolant Type: IR#: 19

- ☐ None
☒ Blue Ice: 5.4 °C
☐ Ice: °C
☐ Dry Ice: °C
☐ Temp Blank: °C
 Corrected Temp: °C

Bottle Type:

☒ Client Provided

☐ Other :

Size / Type:

Lot:

Preservation:

Preservative Lot:

☐ Other :

Size / Type:

Lot:

Preservation:

Preservative Lot:

☐ Other :

Size / Type:

Lot:

Preservation:

Preservative Lot:

ORIGIN ID: ABQA (505) 345-3975
 ANNE THORNE
 HALL ENVIRONMENTAL
 4901 HAWKINS NE

ALBUQUERQUE, NM 87109
 UNITED STATES US

SHIP DATE: 07MAY20
 ACTWGT: 31.00 LB
 CAD: 1717027/INET4220

BILL SENDER

TO **SAMPLE RECEIVING**
BROOKS APPLIED LAB
18804 NORTHCREEK PARKWAY STE 100

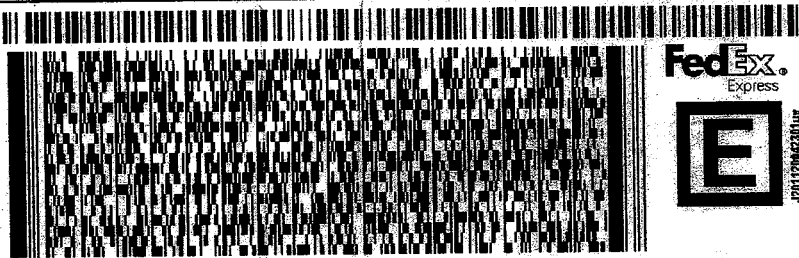
BOTHELL WA 98011

(206) 632-6206

REF:

INV:
 PO:

DEPT:



FRI - 08 MAY 10:30A
 PRIORITY OVERNIGHT

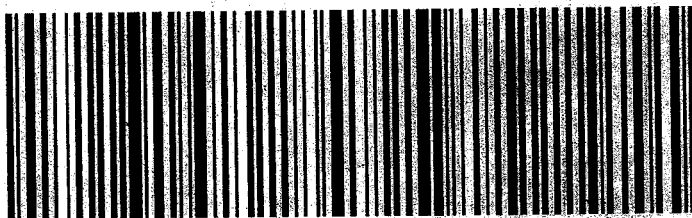
TRK#
 0201

7704 1401 0254

XH PAEA

98011

WA-US SEA



FedEx Ship Manager - Print Your Label(s)

5/7/2020

Initial/date: JMG 5/8/20

Sample Log-In Check List

Client Name: Intel Corp

Work Order Number: 2005245

RcptNo: 1

Received By: Desiree Dominguez

5/6/2020 11:00:00 AM

Completed By: Isaiah Ortiz

5/6/2020 3:07:01 PM

Reviewed By: DAD 5/6/20

IP-2
I-04

Chain of Custody

1. Is Chain of Custody sufficiently 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 $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☐ No ☒ NA ☐
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 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 broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
13. Is it clear what analyses were requested? Yes ☒ No ☐
14. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

of preserved
bottles checked
for pH: 4
(<2 or >12 unless noted)

Adjusted? no

Checked by: em 5/6/20

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	25.8	Good	Not Present			



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

July 03, 2020

Carrie Weitz

Intel Corporation
4100 Sara Road
M/S R8-103
Rio Rancho, NM 87124
TEL: (505) 794-4912
FAX

RE: Cerium

OrderNo.: 2006212

Dear Carrie Weitz:

Hall Environmental Analysis Laboratory received 5 sample(s) on 6/3/2020 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,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109



18804 North Creek Parkway, Ste 100, Bothell, WA 98011 • USA • T: 206 632 6206 F: 206 632 6017 • info@brooksapplied.com

July 2, 2020

Hall Environmental
ATTN: Andy Freeman
4901 Hawkins NE, Suite D
Albuquerque, NM 87109
Andy@hallenvironmental.com

RE: Project HLL-NM1901

Dear Andy Freeman,

On June 5, 2020, Brooks Applied Labs (BAL) received five (5) aqueous samples. The samples were logged-in for cerium (Ce) analysis according to the chain-of-custody (COC) form. The samples were received and stored according to BAL SOPs and EPA methodology.

Total Ce Quantitation by ICP-QQQ-MS

All samples were digested on a hotblock via modified EPA Method 1638 with nitric and hydrochloric acids. Cerium was analyzed using inductively coupled plasma triple quadrupole mass spectrometry (ICP-QQQ-MS). The ICP-QQQ-MS uses advanced interference removal techniques to ensure accuracy of the sample results. For more information, please visit the Interference Reduction Technology section on our website, brooksapplied.com.

The matrix spike (MS) and matrix spike duplicate (MSD) performed on 2006212-005A (2023078-05) had a recovery above the acceptance limit. The result for 2006212-005A (2023078-05) was qualified **N** for not meeting spike recovery criteria.

The results were not method blank corrected as described in the calculations section of the relevant BAL SOPs and were evaluated using reporting limits adjusted to account for sample aliquot size.

All data was reported without qualification and all other associated quality control sample results met the acceptance criteria.

BAL, an accredited laboratory, certifies that the reported results of all analyses for which BAL is NELAP accredited meet all NELAP requirements. For more information please see the *Report Information* page in your report. Please feel free to contact us if you have any questions regarding this report.

Sincerely,

Amanda Royal
Senior Project Manager
Brooks Applied Labs
Amanda@brooksapplied.com

Don Moran
Project Coordinator
Brooks Applied Labs
Don@brooksapplied.com



Report Information

Laboratory Accreditation

BAL is accredited by the *National Environmental Laboratory Accreditation Program* (NELAP) through the State of Florida Department of Health, Bureau of Laboratories (E87982) and is certified to perform many environmental analyses. BAL is also certified by many other states to perform environmental analyses. For a current list of our accreditations/certifications, please visit our website at <http://www.brooksapplied.com/resources/certificates-permits/> or review Tables 1 and 2 in our Accreditation Information. Results reported relate only to the samples listed in the report.

Field Quality Control Samples

Please be notified that certain EPA methods require the collection of field quality control samples of an appropriate type and frequency; failure to do so is considered a deviation from some methods and for compliance purposes should only be done with the approval of regulatory authorities. Please see the specific EPA methods for details regarding required field quality control samples.

Common Abbreviations

AR	as received	MS	matrix spike
BAL	Brooks Applied Labs	MSD	matrix spike duplicate
BLK	method blank	ND	non-detect
BS	blank spike	NR	non-reportable
CAL	calibration standard	N/C	not calculated
CCB	continuing calibration blank	PS	post preparation spike
CCV	continuing calibration verification	REC	percent recovery
COC	chain of custody record	RPD	relative percent difference
D	dissolved fraction	SCV	secondary calibration verification
DUP	duplicate	SOP	standard operating procedure
IBL	instrument blank	SRM	reference material
ICV	initial calibration verification	T	total fraction
MDL	method detection limit	TR	total recoverable fraction
MRL	method reporting limit		

Definition of Data Qualifiers

(Effective 3/23/2020)

E	An estimated value due to the presence of interferences. A full explanation is presented in the narrative.
H	Holding time and/or preservation requirements not met. Please see narrative for explanation.
J	Detected by the instrument, the result is > the MDL but ≤ the MRL. Result is reported and considered an estimate.
J-1	Estimated value. A full explanation is presented in the narrative.
M	Duplicate precision (RPD) was not within acceptance criteria. Please see narrative for explanation.
N	Spike recovery was not within acceptance criteria. Please see narrative for explanation.
R	Rejected, unusable value. A full explanation is presented in the narrative.
U	Result is ≤ the MDL or client requested reporting limit (CRRL). Result reported as the MDL or CRRL.
X	Result is not BLK-corrected and is within 10x the absolute value of the highest detectable BLK in the batch. Result is estimated.
Z	Holding time and/or preservation requirements not established for this method; however, BAL recommendations for holding time were not followed. Please see narrative for explanation.

These qualifiers are based on those previously utilized by Brooks Applied Labs, those found in the EPA SOW ILM03.0, Exhibit B, Section III, pg. B-18, and the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review; USEPA; January 2010. These supersede all previous qualifiers ever employed by BAL.



Accreditation Information

Table 1. Accredited method/matrix/analytes for TNI
Issued by: State of Florida Dept. of Health (The NELAC Institute 2016 Standard)
Issued on: July 1, 2019; Valid to: June 30, 2020
Certificate Number: E87982-33

Method	Matrix	TNI Accredited Analyte(s)
EPA 1638	Non-Potable Waters	Ag, Cd, Cu, Ni, Pb, Sb, Se, Tl, Zn
EPA 200.8	Non-Potable Waters	Ag, Al, As, Ba, Be, Cd, Co, Cr, Cu, Mn, Mo, Ni, Pb, Sb, Se, Tl, U, V, Zn
EPA 6020	Non-Potable Waters	Ag, Al, As, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, Mg, Mn, Mo, Ni, Pb, Sb, Se, Tl, U, V, Zn
	Solids/Chemicals & Biological	Ag, Al, As, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, Mg, Mn, Mo, Ni, Pb, Sb, Se, Tl, V, Zn
BAL-5000	Non-Potable Waters	Ag, Al, As, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, Mg, Mn, Mo, Ni, Pb, Sb, Se, Sn, Sr, Tl, U, V, Zn, Hardness
	Solids/Chemicals	Ag, As, B, Be, Cd, Co, Cr, Cu, Pb, Mo, Ni, Sb, Se, Sn, Sr, Tl, V, Zn
	Biological	Ag, Al, As, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, Mg, Mn, Mo, Ni, Pb, Sb, Se, Sn, Tl, V, Zn
EPA 1640	Non-Potable Waters	Ag, As, Cd, Cu, Pb, Ni, Zn
EPA 1631E	Non-Potable Waters, Solids/Chemicals & Biological	Total Mercury
EPA 1630	Non-Potable Waters	Methyl Mercury
BAL-3200	Solids/Chemicals & Biological	Methyl Mercury
EPA 1632A	Non-Potable Waters	Inorganic Arsenic, As(III)
	Biological	Inorganic Arsenic
BAL-4100	Non-Potable Waters	As(III), As(V), DMAs, MMAs
BAL-4200	Non-Potable Waters	Se(IV), Se(VI)
BAL-4201	Non-Potable Waters	Se(IV), Se(VI)
BAL-4300	Non-Potable Waters Solid/Chemicals	Cr(VI)
SM2340B	Non-Potable Waters	Hardness



Accreditation Information

Table 2. Accredited method/matrix/analytes for ISO (1), Non-Governmental TNI (2), and DoD/DOE (3)

Issued by: ANAB

Issued on: January 10, 2020; Valid to: March 30, 2022

Method	Matrix	ISO and Non-Gov. TNI Accredited Analyte(s)	DoD/DOE Accredited Analytes
EPA 1638 Mod EPA 200.8 Mod EPA 6020 Mod BAL-5000	Non-Potable Waters	Ag, Al, As, B, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, Mg, Mn, Mo, Ni, Pb, Sb, Se, Sn, Sr, Tl, U, V, Zn	Ag, Al, As, Ba, Ca, Cd, Cr, Cu, Fe, Pb, Mg, Mn, Ni, Sb, Se, V, Zn
	Solids/Chemicals & Biological	Ag, Al, As, B, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, Mg, Mn, Mo, Ni, Pb, Sb, Se, Sn, Sr, Tl, V, Zn	Ag, As, Cd, Cr, Cu, Pb, Ni, Se, Zn
EPA 1640 Mod	Non-Potable Waters	Ag, As, Be, Cd, Cr, Co, Cu, Pb, Ni, Se, Tl, V, Zn	Not Accredited
EPA 1631E Mod BAL-3100 (waters) BAL-3101 (solids)	Non-Potable Waters, Solids/Chemicals & Biological/Food	Total Mercury	Total Mercury
EPA 1630 Mod BAL-3200	Non-Potable Waters, Solids/Chemicals Biological	Methyl Mercury	Methyl Mercury (excluding Solids/Chemicals)
EPA 1632A Mod BAL-3300	Non-Potable Waters Solids/Chemicals	Inorganic Arsenic, As(III)	Inorganic Arsenic. As(III) for waters only.
	Biological/Food	Inorganic Arsenic	Inorganic Arsenic (excluding Food)
AOAC 2015.01 Mod BAL-5000 by BAL-5040	Food	As, Cd, Hg, Pb	Not Accredited
BAL-4100	Non-Potable Waters	As(III), As(V), DMAs, MMAs	Not Accredited
	Biological by BAL-4115	Inorganic Arsenic, DMAs, MMAs	Not Accredited
BAL-4101	Food by BAL-4116	Inorganic Arsenic, DMAs, MMAs	Not Accredited
BAL-4200	Non-Potable Waters	Se(IV), Se(VI), SeCN	Not Accredited
BAL-4201	Non-Potable Waters	Se(IV), Se(VI), SeCN, SeMet	Not Accredited
BAL-4300	Non-Potable Waters, Solid/Chemicals	Cr(VI)	Cr(VI)
SM 3500-Fe BAL-4500	Non-Potable Waters	Fe, Fe(II)	Not Accredited
SM2340B	Non-Potable Waters	Hardness	Hardness
SM 2540G EPA 160.3 BAL-0501	Solids/Chemicals & Biological	% Dry Weight	% Dry Weight

(1) ISO/IEC 17025:2017 – Certificate Number ADE-1447.2

(2) Non-Governmental NELAC Institute 2016 Standard – Certificate Number ADE-1447.1

(3) Department of Defense/Energy Consolidated Quality Systems Manual v. 5.3 – Certificate Numbers ADE-1447 for DoD, ADE-1447.3 for DOE.



Sample Information

Sample	Lab ID	Report Matrix	Type	Sampled	Received
2006212-001A	2023078-01	Water	Sample	05/03/2020	06/05/2020
2006212-002A	2023078-02	Water	Sample	05/10/2020	06/05/2020
2006212-003A	2023078-03	Water	Sample	05/17/2020	06/05/2020
2006212-004A	2023078-04	Water	Sample	05/24/2020	06/05/2020
2006212-005A	2023078-05	Water	Sample	05/31/2020	06/05/2020

Batch Summary

Analyte	Lab Matrix	Method	Prepared	Analyzed	Batch	Sequence
Ce	Water	EPA 1638 Mod	06/09/2020	06/12/2020	B201610	2000744
Ce	Water	EPA 1638 Mod	06/16/2020	06/23/2020	B201665	2000801



Sample Results

Sample	Analyte	Report Matrix	Basis	Result	Qualifier	MDL	MRL	Unit	Batch	Sequence
2006212-001A										
2023078-01	Ce	Water	TR	197		0.0008	0.080	µg/L	B201610	2000744
2006212-002A										
2023078-02	Ce	Water	TR	139		0.0008	0.080	µg/L	B201610	2000744
2006212-003A										
2023078-03	Ce	Water	TR	91.9		0.0008	0.080	µg/L	B201610	2000744
2006212-004A										
2023078-04	Ce	Water	TR	81.1		0.0008	0.080	µg/L	B201610	2000744
2006212-005A										
2023078-05	Ce	Water	TR	143	N	0.400	4.00	µg/L	B201665	2000801



Accuracy & Precision Summary

Batch: B201610
Lab Matrix: Water
Method: EPA 1638 Mod

Sample	Analyte	Native	Spike	Result	Units	REC & Limits	RPD & Limits
B201610-BS1	Blank Spike, (1940023) Ce		400.0	405.7	µg/L	101% 75-125	
B201610-DUP1	Duplicate, (2023071-06) Ce	0.088		0.086	µg/L		2% 20
B201610-MS1	Matrix Spike, (2023071-06) Ce	0.088	400.0	403.6	µg/L	101% 75-125	
B201610-MSD1	Matrix Spike Duplicate, (2023071-06) Ce	0.088	400.0	406.5	µg/L	102% 75-125	0.7% 20



Accuracy & Precision Summary

Batch: B201665
Lab Matrix: Water
Method: EPA 1638 Mod

Sample	Analyte	Native	Spike	Result	Units	REC & Limits	RPD & Limits
B201665-BS1	Blank Spike, (1940023) Ce		400.0	369.2	µg/L	92% 75-125	
B201665-DUP1	Duplicate, (2023078-05) Ce	142.7		131.0	µg/L		9% 20
B201665-MS1	Matrix Spike, (2023078-05) Ce	142.7	400.0	680.4	µg/L	134% 75-125	
B201665-MSD1	Matrix Spike Duplicate, (2023078-05) Ce	142.7	400.0	730.2	µg/L	147% 75-125	7% 20



Method Blanks & Reporting Limits

Batch: B201610
Matrix: Water
Method: EPA 1638 Mod
Analyte: Ce

Sample	Result	Units
B201610-BLK1	0.003	µg/L
B201610-BLK2	0.0003	µg/L
B201610-BLK3	0.0004	µg/L
B201610-BLK4	0.0003	µg/L

Average: 0.001
Limit: 0.080

MDL: 0.0008
MRL: 0.080



Method Blanks & Reporting Limits

Batch: B201665
Matrix: Water
Method: EPA 1638 Mod
Analyte: Ce

Sample	Result	Units
B201665-BLK1	0.0007	µg/L
B201665-BLK2	0.0007	µg/L
B201665-BLK3	0.003	µg/L
B201665-BLK4	0.001	µg/L

Average: 0.001
Limit: 0.080

MDL: 0.008
MRL: 0.080



Sample Containers

Lab ID: 2023078-01 Sample: 2006212-001A Des Container A Client-Provided	Size 125 mL	Lot n/a	Report Matrix: Water Sample Type: Sample Preservation 1 mL HNO3 (Client)	P-Lot n/a	Collected: 05/03/2020 Received: 06/05/2020 pH Ship. Cont. <2 Cooler 1 - 2023078
Lab ID: 2023078-02 Sample: 2006212-002A Des Container A Client-Provided	Size 125 mL	Lot n/a	Report Matrix: Water Sample Type: Sample Preservation 1 mL HNO3 (Client)	P-Lot n/a	Collected: 05/10/2020 Received: 06/05/2020 pH Ship. Cont. <2 Cooler 1 - 2023078
Lab ID: 2023078-03 Sample: 2006212-003A Des Container A Client-Provided	Size 125 mL	Lot n/a	Report Matrix: Water Sample Type: Sample Preservation 1 mL HNO3 (Client)	P-Lot n/a	Collected: 05/17/2020 Received: 06/05/2020 pH Ship. Cont. <2 Cooler 1 - 2023078
Lab ID: 2023078-04 Sample: 2006212-004A Des Container A Client-Provided	Size 125 mL	Lot n/a	Report Matrix: Water Sample Type: Sample Preservation 1 mL HNO3 (Client)	P-Lot n/a	Collected: 05/24/2020 Received: 06/05/2020 pH Ship. Cont. <2 Cooler 1 - 2023078
Lab ID: 2023078-05 Sample: 2006212-005A Des Container A Client-Provided	Size 125 mL	Lot n/a	Report Matrix: Water Sample Type: Sample Preservation 1 mL HNO3 (Client)	P-Lot n/a	Collected: 05/31/2020 Received: 06/05/2020 pH Ship. Cont. <2 Cooler 1 - 2023078

Project ID: HLL-NM1901
PM: Amanda Royal



BAL Report 2023078
Client PM: Andy Freeman
Client Project: HLL-NM1901

Shipping Containers

Cooler 1 - 2023078

Received: June 5, 2020 9:40
Tracking No: 7706 2852 7873 via FedEx
Coolant Type: Blue Ice
Temperature: 4.3 °C

Description: Cooler 1
Damaged in transit? No
Returned to client? No
Comments: IR#: 19

Custody seals present? Yes
Custody seals intact? Yes
COC present? Yes

Sample Receipt Chain of Custody

Instructions: Initial and date for each step performed. Write N/A if not applicable.

Workorder: 2023078	Project Manager: Amanda
Labeled: JMG 6/5/2020	
pH checked: JMG 6/5/2020	
Preserved: N/A	
Time: N/A	
Syringe filtered: N/A	
Time: N/A	
Poured off/split: N/A	
Stored: JMG 6/5/2020	
Other (specify: _____): N/A	
Non-conformance notes: N/A	
Initial/date: JMG 6/5/20	



CHAIN OF CUSTODY RECORD


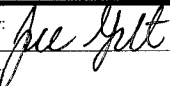
PAGE: 1 OF: 1

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

SUB CONTRATOR: Brooks Applied Labs		COMPANY: Brooks Applied Labs		PHONE: (206) 632-6206		FAX: (206) 632-6017	
ADDRESS: 18804 North Creek Pkwy, Ste 100				ACCOUNT #:		EMAIL:	
CITY, STATE, ZIP: Bothell, WA 98011							
ITEM	SAMPLE	CLIENT SAMPLE ID	BOTTLE TYPE	MATRIX	COLLECTION DATE	# CONTAINERS	ANALYTICAL COMMENTS
1	2006212-001A	May-Ceria	125HDPHNO	Aqueous	5/3/2020 9:00:00 AM	1	Cerium
2	2006212-002A	May-Ceria	125HDPHNO	Aqueous	5/10/2020 9:00:00 AM	1	Cerium
3	2006212-003A	May-Ceria	125HDPHNO	Aqueous	5/17/2020 9:00:00 AM	1	Cerium
4	2006212-004A	May-Ceria	125HDPHNO	Aqueous	5/24/2020 9:00:00 AM	1	Cerium
5	2006212-005A	May-Ceria	125HDPHNO	Aqueous	5/31/2020 9:00:00 AM	1	Cerium

SPECIAL INSTRUCTIONS / COMMENTS:

Please include the LAB ID and the CLIENT SAMPLE ID on all final reports. Please e-mail results to lab@hallenvironmental.com. Please return all coolers and blue ice. Thank you.

Relinquished By: 	Date: 6/3/2020	Time: 5:41 PM	Received By: 	Date: 6/5/20	Time: 09:40	REPORT TRANSMITTAL DESIRED: <input type="checkbox"/> HARDCOPY (extra cost) <input type="checkbox"/> FAX <input type="checkbox"/> EMAIL <input type="checkbox"/> ONLINE	
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	FOR LAB USE ONLY	
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	Temp of samples _____ °C Attempt to Cool? _____	
TAT: <input checked="" type="checkbox"/> Standard <input type="checkbox"/> RUSH <input type="checkbox"/> Next BD <input type="checkbox"/> 2nd BD <input type="checkbox"/> 3rd BD <input type="checkbox"/>						Comments: _____	

Sample Receipt Checklist:

Container Type:

- ☒ Cooler
☐ Cardboard box
☐ Styrofoam cooler
☐ Other (Specify):

☒ Custody Seal Present?

Custody Seal Intact? Y/N

☒ Chain of Custody Present?

Coolant Type: IR#: 19

- ☐ None
☒ Blue Ice: 4.3 °C
☐ Ice: _____ °C
☐ Dry Ice: _____ °C
☐ Temp Blank: _____ °C
 Corrected Temp: _____ °C

Bottle Type:

- ☒ Client Provided
☐ Other: 1ml HNO3 (client)
 Size / Type:
 Lot:
 Preservation:
 Preservative Lot:
☐ Other:
 Size / Type:
 Lot:
 Preservation:
 Preservative Lot:
☐ Other:
 Size / Type:
 Lot:
 Preservation:
 Preservative Lot:

ORIGIN ID: ABQA (505) 345-3975
 ANNE THORNE
 HALL ENVIRONMENTAL
 4901 HAWKINS NE

ALBUQUERQUE, NM 87109
 UNITED STATES US

SHIP DATE: 04 JUN 20
 ACTWGT: 35.00 LB
 CAD: 1717027/NET 4220

BILL SENDER

TO **SAMPLE RECEIVING**
BROOKS APPLIED LAB
18804 NORTHCREEK PARKWAY STE 100

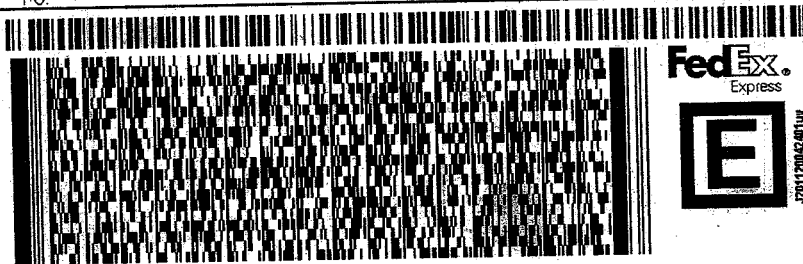
BOTHELL WA 98011

(206) 632-6206

REF:

INV:
 PO:

DEPT:

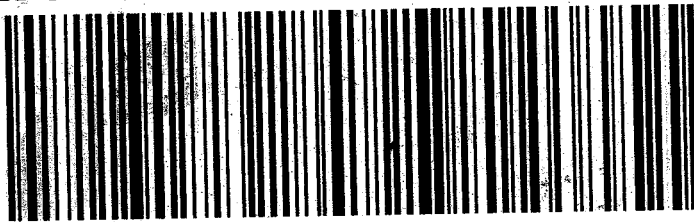


FRI - 05 JUN 10:30A
 PRIORITY OVERNIGHT

TRK# 7706 2852 7873
 0201

XH PAEA

98011
 WA-US SEA



FedEx Ship Manager - Print Your Label(s)

6/4/2020

Initial/date: SM 6/5/2020

Sample Log-In Check List

Client Name: Intel Corp

Work Order Number: 2006212

RcptNo: 1

Received By: Emily Mocho

6/3/2020 11:05:00 AM

Completed By: Leah Baca

6/3/2020 5:38:18 PM

Reviewed By: LB

6/4/20

Leah Baca

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 >0° C to 6.0°C Yes ☐ No ☒ NA ☐

Not required

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 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 broken? Yes ☐ No ☒

11. Does paperwork match bottle labels? Yes ☒ No ☐

(Note discrepancies on chain of custody)

12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐

13. Is it clear what analyses were requested? Yes ☒ No ☐

14. Were all holding times able to be met? Yes ☒ No ☐

(If no, notify customer for authorization.)

of preserved
bottles checked
for pH:

(≤2 or >12 unless noted)

Adjusted? No

Checked by: JR 6/4/20

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:

Date:

By Whom:

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding:

Client Instructions:

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	19.9	Good	Not Present			

ATTACHMENT C

Semi-Annual Monitoring Analytical Results

H1 2020 Semi-Annual Data for SWSP Endorsement

SWSP Pollutant	Sample Date	Site Outfall Max Discharge Flow Rate (gal/min)	Pollutant Concentration (mg/L)	Pollutant Max Daily Limit (mg/L)	Pollutant Max (lbs/day)
Indium	4/20/2020	1496	0.069	0.30	1.24
Indium	4/21/2020	1477	0.069	0.30	1.23
Indium	4/22/2020	1658	0.069	0.30	1.37
Indium	4/23/2020	2346	0.069	0.30	1.94
Gallium	4/20/2020	1496	0.016	3.125	0.288
Gallium	4/21/2020	1477	0.016	3.125	0.284
Gallium	4/22/2020	1658	0.016	3.125	0.319
Gallium	4/23/2020	2346	0.016	3.125	0.451
Platinum	4/20/2020	1496	0.002	0.10	0.036
Platinum	4/21/2020	1477	0.002	0.10	0.036
Platinum	4/22/2020	1658	0.002	0.10	0.040
Platinum	4/23/2020	2346	0.002	0.10	0.056

MAX Flow Rate used as requested by AE **Bold = ND in Report**

Conversion Factors

2.20	lb/kg
3.79	L/gal
1000000	mg/kg

The calculated loading rates in the attached spreadsheet are expressed in lb/day and are conservatively calculated based on the following:

i. Upon request from ABCWUA, the maximum daily flow rate (as opposed to the daily average flow rate) for the day that each 24-hour composite sample was collected was used as an input in the calculations.

ANALYTICAL REPORT

Eurofins TestAmerica, Denver
4955 Yarrow Street
Arvada, CO 80002
Tel: (303)736-0100

Laboratory Job ID: 280-135911-1

Client Project/Site: Semi Annual Waste Water

For:

Intel Corporation
4100 Sara Road
Mail Stop RR5-491
Rio Rancho, New Mexico 87124

Attn: Amy Reed



Authorized for release by:
5/7/2020 5:38:28 PM

Donna Rydberg, Senior Project Manager
(303)736-0192
donna.rydberg@testamericainc.com

LINKS

Review your project
results through

TotalAccess

Have a Question?



Visit us at:

www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: Intel Corporation
Project/Site: Semi Annual Waste Water

Job ID: 280-135911-1

Job ID: 280-135911-1

Laboratory: Eurofins TestAmerica, Denver

Narrative

CASE NARRATIVE

Client: Intel Corporation

Project: Semi Annual Waste Water

Report Number: 280-135911-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 4/24/2020 at 8:40 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.2° C.

SEMIVOLATILE ORGANIC COMPOUNDS (GC-MS)

Sample H1-042320 (280-135911-4) was analyzed for semivolatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8270C. The samples were prepared on 04/30/2020 and analyzed on 05/05/2020.

Sample H1-042320 (280-135911-4)[100X] required a dilution prior to analysis. The reporting limits have been adjusted accordingly. In some cases, sample surrogate recoveries were not calculated, because the extracts were diluted beyond the ability to reliably quantitate recoveries.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

NONHALOGENATED ORGANIC USING GC/FID (DIRECT AQUEOUS INJECTION)

Sample H1-042320 (280-135911-4) was analyzed for Nonhalogenated Organic using GC/FID (Direct Aqueous Injection) in accordance with SW846 8015C. The samples were analyzed on 05/04/2020.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL METALS (ICP)

Samples H1-042020 (280-135911-1), H1-042120 (280-135911-2), H1-042220 (280-135911-3) and H1-042320 (280-135911-4) were analyzed for Total Metals (ICP) in accordance with EPA SW-846 Method 6010C. The samples were prepared and analyzed on 04/30/2020.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL METALS (ICPMS)

Samples H1-042020 (280-135911-1), H1-042120 (280-135911-2), H1-042220 (280-135911-3) and H1-042320 (280-135911-4) were analyzed for total metals (ICPMS) in accordance with EPA SW-846 Method 6020A. The samples were prepared on 05/04/2020 and analyzed on 05/06/2020.

Samples H1-042020 (280-135911-1)[10X], H1-042120 (280-135911-2)[10X], H1-042220 (280-135911-3)[10X] and H1-042320

Case Narrative

Client: Intel Corporation
Project/Site: Semi Annual Waste Water

Job ID: 280-135911-1

Job ID: 280-135911-1 (Continued)

Laboratory: Eurofins TestAmerica, Denver (Continued)

(280-135911-4)[10X] required dilution prior to analysis due to the abundance of non-target analytes. The reporting limits have been adjusted accordingly.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

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Definitions/Glossary

Client: Intel Corporation
Project/Site: Semi Annual Waste Water

Job ID: 280-135911-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate recovery exceeds control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Detection Summary

Client: Intel Corporation
Project/Site: Semi Annual Waste Water

Job ID: 280-135911-1

Client Sample ID: H1-042020

Lab Sample ID: 280-135911-1

No Detections.

Client Sample ID: H1-042120

Lab Sample ID: 280-135911-2

No Detections.

Client Sample ID: H1-042220

Lab Sample ID: 280-135911-3

No Detections.

Client Sample ID: H1-042320

Lab Sample ID: 280-135911-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1-Methyl-2-pyrrolidinone	3200		970	170	ug/L	100		8270C	Total/NA
Ethylene glycol	5.0		5.0	1.2	mg/L	1		8015C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Denver

Method Summary

Client: Intel Corporation
Project/Site: Semi Annual Waste Water

Job ID: 280-135911-1

Method	Method Description	Protocol	Laboratory
8270C	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CAN
8015C	Nonhalogenated Organic using GC/FID (Direct Aqueous Injection)	SW846	TAL SAV
6010C	Metals (ICP)	SW846	TAL CF
6020A	Metals (ICP/MS)	SW846	TAL SL
6010B	SW846 6010B	SW846	
3010A	Preparation, Total Metals	SW846	TAL CF
3010A	Preparation, Total Metals	SW846	TAL SL
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL CAN

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

= McCampbell Analytical, Inc., 1534 Willow Pass Road, Pittsburg, CA 94565

TAL CAN = Eurofins TestAmerica, Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

TAL CF = Eurofins TestAmerica, Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401

TAL SAV = Eurofins TestAmerica, Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

TAL SL = Eurofins TestAmerica, St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Sample Summary

Client: Intel Corporation
Project/Site: Semi Annual Waste Water

Job ID: 280-135911-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
280-135911-1	H1-042020	Water	04/20/20 09:00	04/24/20 08:40	
280-135911-2	H1-042120	Water	04/21/20 09:00	04/24/20 08:40	
280-135911-3	H1-042220	Water	04/22/20 09:00	04/24/20 08:40	
280-135911-4	H1-042320	Water	04/23/20 09:00	04/24/20 08:40	

Client Sample Results

Client: Intel Corporation
Project/Site: Semi Annual Waste Water

Job ID: 280-135911-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Client Sample ID: H1-042320
Date Collected: 04/23/20 09:00
Date Received: 04/24/20 08:40

Lab Sample ID: 280-135911-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methyl-2-pyrrolidinone	3200		970	170	ug/L		04/30/20 07:04	05/05/20 15:03	100
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	91		39 - 120				04/30/20 07:04	05/05/20 15:03	100
2-Fluorophenol (Surr)	32		10 - 120				04/30/20 07:04	05/05/20 15:03	100
2,4,6-Tribromophenol (Surr)	0	X	33 - 120				04/30/20 07:04	05/05/20 15:03	100
Nitrobenzene-d5 (Surr)	70		33 - 120				04/30/20 07:04	05/05/20 15:03	100
Phenol-d5 (Surr)	23		10 - 120				04/30/20 07:04	05/05/20 15:03	100
Terphenyl-d14 (Surr)	0	X	36 - 122				04/30/20 07:04	05/05/20 15:03	100

Method: 8015C - Nonhalogenated Organic using GC/FID (Direct Aqueous Injection)

Client Sample ID: H1-042320
Date Collected: 04/23/20 09:00
Date Received: 04/24/20 08:40

Lab Sample ID: 280-135911-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene glycol	5.0		5.0	1.2	mg/L			05/04/20 20:20	1

Method: 6010C - Metals (ICP)

Client Sample ID: H1-042020
Date Collected: 04/20/20 09:00
Date Received: 04/24/20 08:40

Lab Sample ID: 280-135911-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indium	ND		0.50	0.069	mg/L		04/30/20 08:22	04/30/20 20:39	1

Client Sample ID: H1-042120
Date Collected: 04/21/20 09:00
Date Received: 04/24/20 08:40

Lab Sample ID: 280-135911-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indium	ND		0.50	0.069	mg/L		04/30/20 08:22	04/30/20 20:41	1

Client Sample ID: H1-042220
Date Collected: 04/22/20 09:00
Date Received: 04/24/20 08:40

Lab Sample ID: 280-135911-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indium	ND		0.50	0.069	mg/L		04/30/20 08:22	04/30/20 20:43	1

Client Sample ID: H1-042320
Date Collected: 04/23/20 09:00
Date Received: 04/24/20 08:40

Lab Sample ID: 280-135911-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indium	ND		0.50	0.069	mg/L		04/30/20 08:22	04/30/20 20:46	1

Method: 6020A - Metals (ICP/MS)

Client Sample ID: H1-042020
Date Collected: 04/20/20 09:00
Date Received: 04/24/20 08:40

Lab Sample ID: 280-135911-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Platinum	ND		5.0	2.0	ug/L		05/04/20 14:49	05/06/20 03:29	10

Eurofins TestAmerica, Denver

Client Sample Results

Client: Intel Corporation
Project/Site: Semi Annual Waste Water

Job ID: 280-135911-1

Method: 6020A - Metals (ICP/MS)

Client Sample ID: H1-042120
Date Collected: 04/21/20 09:00
Date Received: 04/24/20 08:40

Lab Sample ID: 280-135911-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Platinum	ND		5.0	2.0	ug/L	—	05/04/20 14:49	05/06/20 03:36	10

Client Sample ID: H1-042220
Date Collected: 04/22/20 09:00
Date Received: 04/24/20 08:40

Lab Sample ID: 280-135911-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Platinum	ND		5.0	2.0	ug/L	—	05/04/20 14:49	05/06/20 03:42	10

Client Sample ID: H1-042320
Date Collected: 04/23/20 09:00
Date Received: 04/24/20 08:40

Lab Sample ID: 280-135911-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Platinum	ND		5.0	2.0	ug/L	—	05/04/20 14:49	05/06/20 03:49	10

QC Sample Results

Client: Intel Corporation
Project/Site: Semi Annual Waste Water

Job ID: 280-135911-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 240-432692/17-A

Matrix: Water

Analysis Batch: 433180

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 432692

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methyl-2-pyrrolidinone	ND		10	1.7	ug/L		04/30/20 07:04	05/05/20 13:26	1
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	64		39 - 120				04/30/20 07:04	05/05/20 13:26	1
2-Fluorophenol (Surr)	38		10 - 120				04/30/20 07:04	05/05/20 13:26	1
2,4,6-Tribromophenol (Surr)	48		33 - 120				04/30/20 07:04	05/05/20 13:26	1
Nitrobenzene-d5 (Surr)	61		33 - 120				04/30/20 07:04	05/05/20 13:26	1
Phenol-d5 (Surr)	25		10 - 120				04/30/20 07:04	05/05/20 13:26	1
Terphenyl-d14 (Surr)	88		36 - 122				04/30/20 07:04	05/05/20 13:26	1

Lab Sample ID: LCS 240-432692/19-A

Matrix: Water

Analysis Batch: 433180

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 432692

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1-Methyl-2-pyrrolidinone	20.0	3.80	J	ug/L		19	10 - 120
Surrogate	%Recovery	LCS Qualifier	Limits				
2-Fluorobiphenyl (Surr)	73		39 - 120				
2-Fluorophenol (Surr)	44		10 - 120				
2,4,6-Tribromophenol (Surr)	61		33 - 120				
Nitrobenzene-d5 (Surr)	67		33 - 120				
Phenol-d5 (Surr)	30		10 - 120				
Terphenyl-d14 (Surr)	97		36 - 122				

Method: 8015C - Nonhalogenated Organic using GC/FID (Direct Aqueous Injection)

Lab Sample ID: MB 680-617406/18

Matrix: Water

Analysis Batch: 617406

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene glycol	ND		5.0	1.2	mg/L			05/04/20 17:53	1

Lab Sample ID: LCS 680-617406/14

Matrix: Water

Analysis Batch: 617406

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylene glycol	20.0	19.8		mg/L		99	61 - 148

Lab Sample ID: LCSD 680-617406/15

Matrix: Water

Analysis Batch: 617406

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylene glycol	20.0	20.8		mg/L		104	61 - 148	4	50

Eurofins TestAmerica, Denver

QC Sample Results

Client: Intel Corporation
Project/Site: Semi Annual Waste Water

Job ID: 280-135911-1

Method: 8015C - Nonhalogenated Organic using GC/FID (Direct Aqueous Injection) (Continued)

Lab Sample ID: 280-135911-4 MS

Matrix: Water

Analysis Batch: 617406

Client Sample ID: H1-042320

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylene glycol	5.0		20.0	20.3		mg/L		76	61 - 148

Lab Sample ID: 280-135911-4 MSD

Matrix: Water

Analysis Batch: 617406

Client Sample ID: H1-042320

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylene glycol	5.0		20.0	20.2		mg/L		76	61 - 148	1	50

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 310-277320/1-A

Matrix: Water

Analysis Batch: 277506

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 277320

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indium	ND		0.50	0.069	mg/L		04/30/20 08:22	04/30/20 19:49	1

Lab Sample ID: LCS 310-277320/2-A

Matrix: Water

Analysis Batch: 277506

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 277320

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Indium	2.00	1.79		mg/L		89	80 - 120

Lab Sample ID: 310-180483-A-10-B DU

Matrix: Water

Analysis Batch: 277506

Client Sample ID: Duplicate

Prep Type: Total/NA

Prep Batch: 277320

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Indium	ND		ND		mg/L		NC	20

Lab Sample ID: 310-180438-A-5-B MS

Matrix: Water

Analysis Batch: 277506

Client Sample ID: Matrix Spike

Prep Type: Dissolved

Prep Batch: 277320

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Indium	ND		2.00	2.02		mg/L		101	75 - 125

Lab Sample ID: 310-180438-A-5-C MSD

Matrix: Water

Analysis Batch: 277506

Client Sample ID: Matrix Spike Duplicate

Prep Type: Dissolved

Prep Batch: 277320

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Indium	ND		2.00	1.94		mg/L		97	75 - 125	4	20

Eurofins TestAmerica, Denver

QC Sample Results

Client: Intel Corporation
Project/Site: Semi Annual Waste Water

Job ID: 280-135911-1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 160-469526/1-A
Matrix: Water
Analysis Batch: 469696

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 469526

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Platinum	ND		1.0	0.40	ug/L		05/04/20 14:49	05/06/20 01:21	2

Lab Sample ID: LCS 160-469526/2-A
Matrix: Water
Analysis Batch: 469696

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 469526

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Platinum	10.0	10.5		ug/L		105	80 - 120

QC Association Summary

Client: Intel Corporation
Project/Site: Semi Annual Waste Water

Job ID: 280-135911-1

GC/MS Semi VOA

Prep Batch: 432692

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-135911-4	H1-042320	Total/NA	Water	3510C	
MB 240-432692/17-A	Method Blank	Total/NA	Water	3510C	
LCS 240-432692/19-A	Lab Control Sample	Total/NA	Water	3510C	

Analysis Batch: 433180

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-135911-4	H1-042320	Total/NA	Water	8270C	432692
MB 240-432692/17-A	Method Blank	Total/NA	Water	8270C	432692
LCS 240-432692/19-A	Lab Control Sample	Total/NA	Water	8270C	432692

GC VOA

Analysis Batch: 617406

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-135911-4	H1-042320	Total/NA	Water	8015C	
MB 680-617406/18	Method Blank	Total/NA	Water	8015C	
LCS 680-617406/14	Lab Control Sample	Total/NA	Water	8015C	
LCSD 680-617406/15	Lab Control Sample Dup	Total/NA	Water	8015C	
280-135911-4 MS	H1-042320	Total/NA	Water	8015C	
280-135911-4 MSD	H1-042320	Total/NA	Water	8015C	

Metals

Prep Batch: 277320

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-135911-1	H1-042020	Total/NA	Water	3010A	
280-135911-2	H1-042120	Total/NA	Water	3010A	
280-135911-3	H1-042220	Total/NA	Water	3010A	
280-135911-4	H1-042320	Total/NA	Water	3010A	
MB 310-277320/1-A	Method Blank	Total/NA	Water	3010A	
LCS 310-277320/2-A	Lab Control Sample	Total/NA	Water	3010A	
310-180438-A-5-B MS	Matrix Spike	Dissolved	Water	3010A	
310-180438-A-5-C MSD	Matrix Spike Duplicate	Dissolved	Water	3010A	
310-180483-A-10-B DU	Duplicate	Total/NA	Water	3010A	

Analysis Batch: 277506

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-135911-1	H1-042020	Total/NA	Water	6010C	277320
280-135911-2	H1-042120	Total/NA	Water	6010C	277320
280-135911-3	H1-042220	Total/NA	Water	6010C	277320
280-135911-4	H1-042320	Total/NA	Water	6010C	277320
MB 310-277320/1-A	Method Blank	Total/NA	Water	6010C	277320
LCS 310-277320/2-A	Lab Control Sample	Total/NA	Water	6010C	277320
310-180438-A-5-B MS	Matrix Spike	Dissolved	Water	6010C	277320
310-180438-A-5-C MSD	Matrix Spike Duplicate	Dissolved	Water	6010C	277320
310-180483-A-10-B DU	Duplicate	Total/NA	Water	6010C	277320

Prep Batch: 469526

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-135911-1	H1-042020	Total/NA	Water	3010A	
280-135911-2	H1-042120	Total/NA	Water	3010A	
280-135911-3	H1-042220	Total/NA	Water	3010A	

Eurofins TestAmerica, Denver

QC Association Summary

Client: Intel Corporation
Project/Site: Semi Annual Waste Water

Job ID: 280-135911-1

Metals (Continued)

Prep Batch: 469526 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-135911-4	H1-042320	Total/NA	Water	3010A	
MB 160-469526/1-A	Method Blank	Total/NA	Water	3010A	
LCS 160-469526/2-A	Lab Control Sample	Total/NA	Water	3010A	

Analysis Batch: 469696

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-135911-1	H1-042020	Total/NA	Water	6020A	469526
280-135911-2	H1-042120	Total/NA	Water	6020A	469526
280-135911-3	H1-042220	Total/NA	Water	6020A	469526
280-135911-4	H1-042320	Total/NA	Water	6020A	469526
MB 160-469526/1-A	Method Blank	Total/NA	Water	6020A	469526
LCS 160-469526/2-A	Lab Control Sample	Total/NA	Water	6020A	469526

Lab Chronicle

Client: Intel Corporation
Project/Site: Semi Annual Waste Water

Job ID: 280-135911-1

Client Sample ID: H1-042020

Lab Sample ID: 280-135911-1

Date Collected: 04/20/20 09:00

Matrix: Water

Date Received: 04/24/20 08:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			50 mL	50 mL	277320	04/30/20 08:22	HED	TAL CF
Total/NA	Analysis	6010C		1			277506	04/30/20 20:39	CTB	TAL CF
Total/NA	Prep	3010A			50 mL	50 mL	469526	05/04/20 14:49	DAS	TAL SL
Total/NA	Analysis	6020A		10			469696	05/06/20 03:29	LKP	TAL SL

Client Sample ID: H1-042120

Lab Sample ID: 280-135911-2

Date Collected: 04/21/20 09:00

Matrix: Water

Date Received: 04/24/20 08:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			50 mL	50 mL	277320	04/30/20 08:22	HED	TAL CF
Total/NA	Analysis	6010C		1			277506	04/30/20 20:41	CTB	TAL CF
Total/NA	Prep	3010A			50 mL	50 mL	469526	05/04/20 14:49	DAS	TAL SL
Total/NA	Analysis	6020A		10			469696	05/06/20 03:36	LKP	TAL SL

Client Sample ID: H1-042220

Lab Sample ID: 280-135911-3

Date Collected: 04/22/20 09:00

Matrix: Water

Date Received: 04/24/20 08:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			50 mL	50 mL	277320	04/30/20 08:22	HED	TAL CF
Total/NA	Analysis	6010C		1			277506	04/30/20 20:43	CTB	TAL CF
Total/NA	Prep	3010A			50 mL	50 mL	469526	05/04/20 14:49	DAS	TAL SL
Total/NA	Analysis	6020A		10			469696	05/06/20 03:42	LKP	TAL SL

Client Sample ID: H1-042320

Lab Sample ID: 280-135911-4

Date Collected: 04/23/20 09:00

Matrix: Water

Date Received: 04/24/20 08:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			1030 mL	2 mL	432692	04/30/20 07:04	BMB	TAL CAN
Total/NA	Analysis	8270C		100			433180	05/05/20 15:03	JMG	TAL CAN
Total/NA	Analysis	8015C		1			617406	05/04/20 20:20	DC	TAL SAV
Total/NA	Prep	3010A			50 mL	50 mL	277320	04/30/20 08:22	HED	TAL CF
Total/NA	Analysis	6010C		1			277506	04/30/20 20:46	CTB	TAL CF
Total/NA	Prep	3010A			50 mL	50 mL	469526	05/04/20 14:49	DAS	TAL SL
Total/NA	Analysis	6020A		10			469696	05/06/20 03:49	LKP	TAL SL

Laboratory References:

= McCampbell Analytical, Inc., 1534 Willow Pass Road, Pittsburg, CA 94565

TAL CAN = Eurofins TestAmerica, Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

TAL CF = Eurofins TestAmerica, Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401

TAL SAV = Eurofins TestAmerica, Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

TAL SL = Eurofins TestAmerica, St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Eurofins TestAmerica, Denver



McC Campbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 2004B76

Report Created for: TestAmerica Denver

4955 Yarrow Street
Arvada, CO 80002

Project Contact: Donna Rydberg

Project P.O.:

Project: 28003759; Semi Annual Waste Water

Project Received: 04/29/2020

Analytical Report reviewed & approved for release on 05/05/2020 by:

Yen Cao
Project Manager

The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.





Glossary of Terms & Qualifier Definitions

Client: TestAmerica Denver
Project: 28003759; Semi Annual Waste Water
WorkOrder: 2004B76

Glossary Abbreviation

%D	Serial Dilution Percent Difference
95% Interval	95% Confident Interval
CPT	Consumer Product Testing not NELAP Accredited
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 µm filtered and acidified water sample)
DLT	Dilution Test (Serial Dilution)
DUP	Duplicate
EDL	Estimated Detection Limit
ERS	External reference sample. Second source calibration verification.
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
LQL	Lowest Quantitation Level
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
N/A	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PDS	Post Digestion Spike
PDS D	Post Digestion Spike Duplicate
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
ST	Sorbent Tube
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
TZA	TimeZone Net Adjustment for sample collected outside of MAI's UTC.
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)



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1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mcccampbell.com / E-mail: main@mcccampbell.com

Analytical Report

Client: TestAmerica Denver
Date Received: 04/29/2020 10:41
Date Prepared:
Project: 28003759; Semi Annual Waste Water

WorkOrder: 2004B76
Extraction Method: SW3050B
Analytical Method: SW6010B
Unit: µg/L

Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
H1-042020 (280-135911-1)	2004B76-001A	Water	04/20/2020 09:00	ICP-OES 24	197732

Analytes	Result	MDL	RL	DF	Date Analyzed
Gallium	ND	16	20	1	05/05/2020 11:48

Surrogates	REC (%)	Limits
Terbium	107	70-130

Analyst(s): DB

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
H1-042120 (280-135911-2)	2004B76-002A	Water	04/21/2020 09:00	ICP-OES 25	197732

Analytes	Result	MDL	RL	DF	Date Analyzed
Gallium	ND	16	20	1	05/05/2020 11:50

Surrogates	REC (%)	Limits
Terbium	109	70-130

Analyst(s): DB

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
H1-042220 (280-135911-3)	2004B76-003A	Water	04/22/2020 09:00	ICP-OES 26	197732

Analytes	Result	MDL	RL	DF	Date Analyzed
Gallium	ND	16	20	1	05/05/2020 11:53

Surrogates	REC (%)	Limits
Terbium	110	70-130

Analyst(s): DB

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
H1-042320 (280-135911-4)	2004B76-004A	Water	04/23/2020 09:00	ICP-OES 27	197732

Analytes	Result	MDL	RL	DF	Date Analyzed
Gallium	ND	16	20	1	05/05/2020 11:56

Surrogates	REC (%)	Limits
Terbium	110	70-130

Analyst(s): DB



Quality Control Report

Client: TestAmerica Denver
Date Prepared: 04/29/2020
Date Analyzed: 04/29/2020
Instrument: ICP-OES
Matrix: Water
Project: 28003759; Semi Annual Waste Water

WorkOrder: 2004B76
BatchID: 197732
Extraction Method: SW3050B
Analytical Method: SW6010B
Unit: µg/L
Sample ID: MB/LCS/LCSD-197732

QC Summary Report for Metals

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
Gallium	ND	16.0	20.0	-	-	-
Surrogate Recovery						
Terbium	536			500	107	70-130

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Gallium	1020	990	1000	102	99	85-115	3.05	20
Surrogate Recovery								
Terbium	533	538	500	107	108	70-130	0.898	20



CHAIN-OF-CUSTODY RECORD

WorkOrder: 2004B76

ClientCode: TADC

☐ WaterTrax☐ WriteOn☐ EDF☒ Excel☐ EQuIS☐ Email☐ HardCopy☐ ThirdParty☒ J-flag☐ Detection Summary☐ Dry-Weight

Report to:

 Donna Rydberg
 TestAmerica Denver
 4955 Yarrow Street
 Arvada, CO 80002
 303-736-0100 FAX: 303-431-7171

 Email: donna.rydberg@testamericainc.com
 cc/3rd Party:
 PO:
 Project: 28003759; Semi Annual Waste Water

Bill to:

 Accounts Payable
 TestAmerica
 4101 Shuffel Street NW
 North Canton, OH 44720
 DiLea.Bindel@testamericainc.com

Requested TAT: 5 days;

Date Received: 04/29/2020

Date Logged: 04/29/2020

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
2004B76-001	H1-042020 (280-135911-1)	Water	4/20/2020 09:00	<input type="checkbox"/>	A	A										
2004B76-002	H1-042120 (280-135911-2)	Water	4/21/2020 09:00	<input type="checkbox"/>	A	A										
2004B76-003	H1-042220 (280-135911-3)	Water	4/22/2020 09:00	<input type="checkbox"/>	A	A										
2004B76-004	H1-042320 (280-135911-4)	Water	4/23/2020 09:00	<input type="checkbox"/>	A	A										

Test Legend:

1	METALS_6010_TTLC_W
5	
9	

2	PRDisposal Fee
6	
10	

3	
7	
11	

4	
8	
12	

Project Manager: Angela Rydelius

Prepared by: Tina Perez

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
 Hazardous samples will be returned to client or disposed of at client expense.



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http://www.mcccampbell.com / E-mail: main@mcccampbell.com

WORK ORDER SUMMARY

Client Name: TESTAMERICA DENVER

Project: 28003759; Semi Annual Waste Water

Work Order: 2004B76

Client Contact: Donna Rydberg

QC Level: LEVEL 2

Contact's Email: donna.rydberg@testamericainc.com

Comments:

Date Logged: 4/29/2020

☐ WaterTrax ☐ WriteOn ☐ EDF ☒ Excel ☐ EQUIS ☐ Email ☐ HardCopy ☐ ThirdParty ☒ J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De- chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
2004B76-001A	H1-042020 (280-135911-1)	Water	SW6010B (Metals) <Gallium, Silica>	1	500mL HDPE w/ HNO3	<input type="checkbox"/>	4/20/2020 9:00	5 days	None	<input type="checkbox"/>	
2004B76-002A	H1-042120 (280-135911-2)	Water	SW6010B (Metals) <Gallium, Silica>	1	500mL HDPE w/ HNO3	<input type="checkbox"/>	4/21/2020 9:00	5 days	None	<input type="checkbox"/>	
2004B76-003A	H1-042220 (280-135911-3)	Water	SW6010B (Metals) <Gallium, Silica>	1	500mL HDPE w/ HNO3	<input type="checkbox"/>	4/22/2020 9:00	5 days	None	<input type="checkbox"/>	
2004B76-004A	H1-042320 (280-135911-4)	Water	SW6010B (Metals) <Gallium, Silica>	1	500mL HDPE w/ HNO3	<input type="checkbox"/>	4/23/2020 9:00	5 days	None	<input type="checkbox"/>	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.



Sample Receipt Checklist

Client Name: **TestAmerica Denver**
Project: **28003759; Semi Annual Waste Water**

Date and Time Received: **4/29/2020 10:41**

Date Logged: **4/29/2020**

Received by: **Tina Perez**

Logged by: **Tina Perez**

WorkOrder No: **2004B76** Matrix: Water
Carrier: FedEx

Chain of Custody (COC) Information

Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample IDs noted by Client on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Date and Time of collection noted by Client on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sampler's name noted on COC?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
COC agrees with Quote?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	NA <input type="checkbox"/>
Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper containers/bottles?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	NA <input type="checkbox"/>
Samples Received on Ice?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	

Sample/Temp Blank temperature	Temp: 17.5°C	NA <input type="checkbox"/>
Water - VOA vials have zero headspace / no bubbles?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	NA <input type="checkbox"/>
Sample labels checked for correct preservation?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
pH acceptable upon receipt (Metal: <2; Nitrate 353.2/4500NO ₃ : <2; 522: <4; 218.7: >8)?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	NA <input type="checkbox"/>

UCMR Samples:

pH tested and acceptable upon receipt (200.8: ≤2; 525.3: ≤4; 530: ≤7; 541: <3; 544: <6.5 & 7.5)?	Yes <input type="checkbox"/> No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
Free Chlorine tested and acceptable upon receipt (<0.1mg/L)?	Yes <input type="checkbox"/> No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>

Comments:

Login Sample Receipt Checklist

Client: Intel Corporation

Job Number: 280-135911-1

Login Number: 135911

List Source: Eurofins TestAmerica, Denver

List Number: 1

Creator: Pottruff, Reed W

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Intel Corporation

Job Number: 280-135911-1

Login Number: 135911

List Number: 3

Creator: Homolar, Dana J

List Source: Eurofins TestAmerica, Cedar Falls

List Creation: 04/29/20 03:27 PM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Intel Corporation

Job Number: 280-135911-1

Login Number: 135911

List Number: 2

Creator: Sims, Robert D

List Source: Eurofins TestAmerica, Savannah

List Creation: 04/29/20 12:28 PM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ ($1/4''$).	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Intel Corporation

Job Number: 280-135911-1

Login Number: 135911

List Number: 5

Creator: Korrinhizer, Micha L

List Source: Eurofins TestAmerica, St. Louis

List Creation: 04/29/20 09:25 PM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ORIGIN ID: 0NMG 50589384020000 RIO RANCHO SHIPPING INTEL CORPORATION 4100 SARA RD RIO RANCHO NM 87124 UNITED STATES US		SHIP DATE: 23APR20 ACT/MET: 501B CAD: 515551/FKRS1401	
TEST AMERICA 4955 YARROW STREET ARVADA CO 80002 (303) 736-0100 REF: 1304528487 INV: PO: DEPT:		BILL SENDER	
TRK# 6431 3556 0613 0201		FRI - 24 APR 10:30A PRIORITY OVERNIGHT	
XH WHHA 80002 CO-US DEN			

522C4/7B3A/F22B

Chain of Custody Record

[illegible]

2013.7

Chain of Custody Record

[illegible]

Eurofins TestAmerica Canton Sample Receipt Form/Narrative Canton Facility				Login # : _____
Client <u>ETA Denver</u>		Site Name _____		Cooler unpacked by: <u>[Signature]</u>
Cooler Received on <u>4-29-20</u>		Opened on <u>4-29-20</u>		
FedEx: 1 st Grd <input checked="" type="checkbox"/> Exp <input type="checkbox"/> UPS <input type="checkbox"/> FAS <input type="checkbox"/> Clipper <input type="checkbox"/> Client Drop Off <input type="checkbox"/> TestAmerica Courier <input type="checkbox"/> Other <input type="checkbox"/>				
Receipt After-hours: Drop-off Date/Time _____ Storage Location _____				
TestAmerica Cooler # <u>7A</u> Foam Box <input type="checkbox"/> Client Cooler <input type="checkbox"/> Box <input type="checkbox"/> Other <input type="checkbox"/> Packing material used: <u>Bubble Wrap</u> Foam <input type="checkbox"/> <u>Plastic Bag</u> None <input type="checkbox"/> Other <input type="checkbox"/> COOLANT: <u>Wet Ice</u> Blue Ice <input type="checkbox"/> Dry Ice <input type="checkbox"/> Water <input type="checkbox"/> None <input type="checkbox"/>				
1. Cooler temperature upon receipt <input type="checkbox"/> See Multiple Cooler Form IR GUN# IR-10 (CF +0.7 °C) Observed Cooler Temp. <u>3.0</u> °C Corrected Cooler Temp. <u>3.7</u> °C IR GUN #IR-11 (CF +0.9 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C 2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity <u>2</u> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> -Were the seals on the outside of the cooler(s) signed & dated? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> -Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> -Were tamper/custody seals intact and uncompromised? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> 3. Shippers' packing slip attached to the cooler(s)? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> 4. Did custody papers accompany the sample(s)? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> 5. Were the custody papers relinquished & signed in the appropriate place? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> 6. Was/were the person(s) who collected the samples clearly identified on the COC? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> 7. Did all bottles arrive in good condition (Unbroken)? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> 8. Could all bottle labels be reconciled with the COC? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> 9. Were correct bottle(s) used for the test(s) indicated? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> 10. Sufficient quantity received to perform indicated analyses? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> 11. Are these work share samples? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> If yes, Questions 12-16 have been checked at the originating laboratory. 12. Were all preserved sample(s) at the correct pH upon receipt? Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> pH Strip Lot# <u>HC902937</u> 13. Were VOAs on the COC? Yes <input type="checkbox"/> No <input type="checkbox"/> 14. Were air bubbles >6 mm in any VOA vials? <input checked="" type="radio"/> Larger than this. Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> 15. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # _____ Yes <input type="checkbox"/> No <input type="checkbox"/> 16. Was a LL Hg or Me Hg trip blank present? Yes <input type="checkbox"/> No <input type="checkbox"/>				
Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other _____ Concerning _____				

Tests that are not checked for pH by Receiving:

VOAs
Oil and Grease
TOC

17. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES _____ _____ _____ _____ _____	Samples processed by: _____
18. SAMPLE CONDITION Sample(s) _____ were received after the recommended holding time had expired. Sample(s) _____ were received in a broken container. Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)	
19. SAMPLE PRESERVATION Sample(s) _____ were further preserved in the laboratory. Time preserved: _____ Preservative(s) added/Lot number(s): _____ VOA Sample Preservation - Date/Time VOAs Frozen: _____	



Cooler/Sample Receipt and Temperature Log Form

Client Information			
Client: <u>Eurofins TestAmerica, Denver</u>			
City/State:	CITY <u>Arvada</u>	STATE <u>CO</u>	Project: <u>Semi Annual Waste water</u>
Receipt Information			
Date/Time Received:	DATE <u>4/29/20</u>	TIME <u>0940</u>	Received By: <u>JR</u>
Delivery Type: <input type="checkbox"/> UPS <input checked="" type="checkbox"/> FedEx <input type="checkbox"/> FedEx Ground <input type="checkbox"/> US Mail <input type="checkbox"/> Spee-Dee <input type="checkbox"/> Lab Courier <input type="checkbox"/> Lab Field Services <input type="checkbox"/> Client Drop-off <input type="checkbox"/> Other: _____			
Condition of Cooler/Containers			
Sample(s) received in Cooler?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Cooler ID: _____
Multiple Coolers?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Cooler # _____ of _____
Cooler Custody Seals Present?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Cooler custody seals intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Sample Custody Seals Present?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Sample custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No
Trip Blank Present?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Which VOA samples are in cooler? ↓
Temperature Record			
Coolant: <input type="checkbox"/> Wet ice <input type="checkbox"/> Blue ice <input type="checkbox"/> Dry ice <input type="checkbox"/> Other: _____ <input checked="" type="checkbox"/> NONE			
Thermometer ID: <u>M</u>		Correction Factor (°C): <u>+0.1</u>	
Temp Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature			
Uncorrected Temp (°C):		Corrected Temp (°C):	
Sample Container Temperature			
Container(s) used:	CONTAINER 1 <u>plastic, 250ml, HNO₃</u>		CONTAINER 2
Uncorrected Temp (°C):	<u>17.2</u>		
Corrected Temp (°C):	<u>17.3</u>		
Exceptions Noted			
1) If temperature exceeds criteria, was sample(s) received same day of sampling? <input type="checkbox"/> Yes <input type="checkbox"/> No a) If yes: Is there evidence that the chilling process began? <input type="checkbox"/> Yes <input type="checkbox"/> No			
2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) <input type="checkbox"/> Yes <input type="checkbox"/> No			
NOTE: If yes, contact PM before proceeding. If no, proceed with login			
Additional Comments			

[illegible]

ATTACHMENT D

Site Outfall Flow Meter Calibration Records

2/21/20

Chris Kelsey, Kris Mortensen, Annie June Burns, John Gabrielson

	<input type="checkbox"/> Teledyne ISCO Signature Flow Meter Installation and Operation Guide
	<input type="checkbox"/> Magnetrol Model R82 Pulse Burst Radar Level Transmitter Installation and Operation Manual
80	Technical PM Procedure (Perform in Sequence)
1	Set Up/Staging
1.1	Verify that all parts from Section 20 are on hand.
1.2	Don PPE per Section 10G.
2	Shutdown
2.1	N/A
3	PM Steps
3.1	Set the calibration target to exactly 1 foot.
3.2	On the ultrasonic unit, select Menu (softkey B), Configure Options (option 2), Adjust (option 3), Level, 310 Level.
3.3	Carefully place the target directly below the flow meter's ultrasonic transducer. Make sure the foot of the pole assembly is resting on the bottom of the flume, the pole is held vertically, and the calibration target is level.
3.4	After the flow meter has stabilized on the flow meter's display, make note of the as-found level: Ultrasonic Calibration (Primary Unit) As-Found Level: <u>0.970</u> ft. As-Left Level: <u>1.000</u> ft.
3.5	Enter 1.000 ft in the level field and select the Adjust button.
3.6	Go back to the Home Screen, remove the target, and wait until the flow starts registering.

2/21/20

Chris Kelsey, Kris Mortensen, Annie Sore Burns, John Gabaldon

3.9	<p>After the flow meter has stabilized on the flow meter's display, make note of the as-found level:</p> <p>Radar Calibration (Backup Unit)</p> <p>As-Found Level: <u>0.920</u> ft.</p> <p>As-Left Level: <u>0.980</u> ft.</p>
3.10	<p>On the Hart Communicator, select:</p> <ul style="list-style-type: none"> -Online -Device Setup -(9) Tank Height <p>Adjust the Tank Height Parameter in 0.1-in increments until the level is as close as possible to 1.000 foot. If the level is too high, decrease the tank height and if the level is too low, increase the tank height.</p> <p>To adjust tank height, select:</p> <ul style="list-style-type: none"> -Enter -Send <p>Repeat adjustments until the level is as close as possible to 1.000 foot. When completed, make note of the as-left level above.</p>
4	Startup
4.1	N/A
5	Cleanup
5.1	Account for all tools and return to their appropriate storage area.
5.2	Provide EHS with a copy of the procedure including the noted as-found and as-left levels.