January 26, 2016

**Certified Mail**
**Return Receipt Requested**

Jane Rael, PE – SWRP/Pretreatment
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: | July 1, 2015 through December 31, 2015 |

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

The following information is enclosed:

| Endorsement | Code |
|---|---|
| Ammonia Loading | LOAD2 |
| Cyanide Certification | CN |
| Average and Daily Effluent Flow Monitoring | FM6 |
| Grease Traps, Snad Traps and Oil/Water Separators | GS |
| Hazardous Air Pollutants Certification | HAPS |
| Hazardous Substances and Pretreatment Wastes for Permit # 2021A | HZ3 |
| 2021A pH Monitoring | PH3 |
| Reporting Certification | RC |
| Toxic Organic Management Plan Certification Statement | TC3 |
| Special Wastestream Pollutant Limitations | INGA |
| Source Reduction and Waste Minimization Statement | WM |

Attachments:
- Test America Outfall Analytical Reports
- Grease Trap Pump Out Documentation
- TOMP Update

To clarify any information submitted, please contact Jeff Rudnik at (505) 893-1613.

Sincerely,

Mindy Koch
NM Site Corporate Services Manager

Enclosures

EHS005

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

## Reporting Requirements

| Code | Endorsement |
|---|---|
| LOAD2 | 2021A AMMONIA LOADING |
| 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 |
| TC3 | TOMP CERTIFICATION STATEMENT |
| INGA | SPECIAL WASTESTREAM POLLUTANT LIMITATIONS |
| WM | WASTE MIN. PERMIT 2021A |

## ENDORSEMENT LOAD2

2021A AMMONIA LOADING

COMPLIANCE REQUIREMENT: The Permittee is required to discharge less than 2,200 lbs per day of Ammonia calculated on a monthly average. Industry sampling and Water Authority monitoring may be combined to calculate the monthly average. The Permittee is required to discharge less than 5,418 lbs per day of Ammonia as a maximum on any one day.

MONITORING REQUIREMENT: The Permittee shall monitor the discharge on a weekly basis using Hach Method 10031, or another method approved by the Industrial Pretreatment Engineer. Monitoring by the permittee may be increased at the discretion of the Industrial Pretreatment Engineer.

REPORTING REQUIREMENT: The Permittee shall notify the Industrial Pretreatment Engineer (289-3439) via telephone 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 should be notified (289-3411). The Permittee shall report on the monthly bases all Ammonia monitoring and flows. The results and flow must be sent to the Industrial Pretreatment Engineer or her designate by the 10$^{th}$ of the month. Twice a year the Permittee shall conduct accuracy checks per the analytical method and submit the results with each semi-annual report.

| Date | Check Results (10 ppm Standard) |
|---|---|
| 7/1/2015 | 10.4 |
| 7/15/2015 | 10.3 |
| 7/22/2015 | 9 |
| 7/29/2015 | 10.3 |
| 8/5/2015 | 9.6 |
| 8/12/2015 | 9.7 |
| 8/19/2015 | 10.1 |
| 8/26/2015 | 9.7 |
| 9/2/2015 | 10 |
| 9/9/2015 | 9.9 |
| 9/16/2015 | 10.4 |
| 9/24/2015 | 10.5 |
| 10/8/2015 | 9.2 |
| 10/14/2015 | 10.7 |
| 10/22/2015 | 9.6 |
| 10/28/2015 | 10.2 |
| 11/4/2015 | 10.4 |
| 11/12/2015 | 9.9 |
| 11/18/2015 | 9.3 |
| 11/25/2015 | 10 |
| 12/2/2015 | 9.8 |
| 12/9/2015 | 10.5 |
| 12/16/2015 | 9.4 |
| 12/23/2015 | 10.8 |
| 12/30/2015 | 10 |

**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: 1/06/16

Signature: Mindy Koch Title: NM Corporate Services Manager

Authorized Representative

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

| Product Name | Chemical Ingredient | CAS | Contribution % | Container | Size | Unit | Count | Total (Lbs) | Location |
|---|---|---|---|---|---|---|---|---|---|
| Ammonia Test Kits (Ammonia Cyanurate Reagent) | Sodium Dichloroisocyanurate | 2893-78-9 | 2.5% | Packet | 0.02 | Kg | 3 | 0.003 | General Chemistry Lab |
| Ammonia Test Kits (Ammonia Salicylate Reagent) | Sodium Nitroferricyanide | 14402-89-2 | 1% | Packet | 0.01 | Kg | 3 | 0.001 | General Chemistry Lab |
| Super Glue | Ethyl Cyanoacrylate | 7085-85-0 | 100% | Tube | 2 | Gram | 1 | 0.004 | FA Wet Lab |
| LC 29 Liquid Crystal | Hexylcyanobiphenyl | 41122-70-7 | 100% | Bottle | 1 | mL | 1 | 0.002 | FA Wet Lab |

## 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 flowmeter calibration documentation with the semi-annual reports.

| | | |
|---|---|---|
| Average Daily Flow: | __1,270_____ | gallons per day |
| Peak Daily Flow: | __1,649_____ | gallons per day |
| Peak Daily Flow occurred on: | __12/16/2015_____ | date |

# 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.**

## July 2015

| Date | Site Outfall flow Average (gpm) | AWN Unreg/Dil Flows (gpm) | Regulated Flows Average | Unreg/Dil Flows Average |
|---|---|---|---|---|
| 7/1/2015 | 1,212 | 329 | 857 | 355 |
| 7/2/2015 | 1,450 | 189 | 1,235 | 215 |
| 7/3/2015 | 1,194 | 157 | 1,011 | 183 |
| 7/4/2015 | 1,208 | 153 | 1,029 | 179 |
| 7/5/2015 | 1,211 | 286 | 898 | 312 |
| 7/6/2015 | 1,052 | 185 | 842 | 211 |
| 7/7/2015 | 1,112 | 146 | 940 | 172 |
| 7/8/2015 | 1,156 | 282 | 848 | 308 |
| 7/9/2015 | 1,298 | 325 | 948 | 351 |
| 7/10/2015 | 1,144 | 188 | 931 | 214 |
| 7/11/2015 | 1,109 | 152 | 931 | 178 |
| 7/12/2015 | 1,091 | 143 | 922 | 169 |
| 7/13/2015 | 1,080 | 164 | 890 | 190 |
| 7/14/2015 | 1,134 | 308 | 801 | 334 |
| 7/15/2015 | 1,017 | 205 | 786 | 231 |
| 7/16/2015 | 1,058 | 176 | 856 | 202 |
| 7/17/2015 | 1,286 | 325 | 936 | 351 |
| 7/18/2015 | 1,269 | 219 | 1,024 | 245 |
| 7/19/2015 | 1,375 | 317 | 1,032 | 343 |
| 7/20/2015 | 1,374 | 216 | 1,132 | 242 |
| 7/21/2015 | 1,211 | 178 | 1,007 | 204 |
| 7/22/2015 | 1,273 | 180 | 1,067 | 206 |
| 7/23/2015 | 1,353 | 321 | 1,006 | 347 |
| 7/24/2015 | 1,266 | 348 | 892 | 374 |
| 7/25/2015 | 1,067 | 221 | 820 | 247 |
| 7/26/2015 | 1,062 | 173 | 863 | 199 |
| 7/27/2015 | 1,338 | 307 | 1,005 | 333 |
| 7/28/2015 | 1,105 | 209 | 869 | 235 |
| 7/29/2015 | 1,206 | 173 | 1,008 | 199 |
| 7/30/2015 | 1,257 | 195 | 1,036 | 221 |
| 7/31/2015 | 1,246 | 342 | 878 | 368 |
| | **gpm** | **gpd** | | |
| **Average** | **1,200** | **1,728,144** | | |
| **Peak** | **1,450** | **2,088,420** | **Peak Date** | **7/2/2015** |

## August 2015

| Date | Site Outfall flow Average (gpm) | AWN Unreg/Dil Flows (gpm) | Regulated Flows Average | Unreg/Dil Flows Average |
|---|---|---|---|---|
| 8/1/2015 | 1,233 | 375 | 832 | 401 |
| 8/2/2015 | 1,038 | 241 | 771 | 267 |
| 8/3/2015 | 1,123 | 207 | 890 | 233 |
| 8/4/2015 | 1,221 | 206 | 989 | 232 |
| 8/5/2015 | 1,172 | 338 | 807 | 364 |
| 8/6/2015 | 1,030 | 224 | 780 | 250 |
| 8/7/2015 | 1,061 | 191 | 844 | 217 |
| 8/8/2015 | 1,033 | 182 | 825 | 208 |
| 8/9/2015 | 1,470 | 467 | 977 | 493 |
| 8/10/2015 | 1,009 | 259 | 724 | 285 |
| 8/11/2015 | 1,142 | 186 | 930 | 212 |
| 8/12/2015 | 1,201 | 189 | 986 | 215 |
| 8/13/2015 | 1,026 | 189 | 811 | 215 |
| 8/14/2015 | 1,194 | 328 | 840 | 354 |
| 8/15/2015 | 1,020 | 229 | 765 | 255 |
| 8/16/2015 | 1,113 | 196 | 891 | 222 |
| 8/17/2015 | 1,184 | 319 | 839 | 345 |
| 8/18/2015 | 1,111 | 337 | 747 | 363 |
| 8/19/2015 | 1,012 | 198 | 787 | 224 |
| 8/20/2015 | 1,139 | 165 | 948 | 191 |
| 8/21/2015 | 1,053 | 163 | 864 | 189 |
| 8/22/2015 | 1,157 | 176 | 955 | 202 |
| 8/23/2015 | 1,188 | 312 | 850 | 338 |
| 8/24/2015 | 1,027 | 202 | 799 | 228 |
| 8/25/2015 | 1,206 | 306 | 874 | 332 |
| 8/26/2015 | 1,088 | 201 | 860 | 227 |
| 8/27/2015 | 1,274 | 309 | 940 | 335 |
| 8/28/2015 | 1,206 | 210 | 970 | 236 |
| 8/29/2015 | 1,087 | 170 | 891 | 196 |
| 8/30/2015 | 1,087 | 169 | 892 | 195 |
| 8/31/2015 | 1,159 | 306 | 826 | 332 |
| | **gpm** | **gpd** | | |
| **Average** | **1,131** | **1,628,655** | | |
| **Peak** | **1,470** | **2,116,404** | **Peak Date** | **8/9/2015** |

## September 2015

| Date | Site Outfall flow Average (gpm) | AWN Unreg/Dil Flows (gpm) | Regulated Flows Average | Unreg/Dil Flows Average |
|---|---|---|---|---|
| 9/1/2015 | 995 | 201 | 768 | 227 |
| 9/2/2015 | 1,229 | 302 | 901 | 328 |
| 9/3/2015 | 990 | 202 | 763 | 228 |
| 9/4/2015 | 1,048 | 158 | 864 | 184 |
| 9/5/2015 | 1,187 | 304 | 858 | 330 |
| 9/6/2015 | 1,245 | 206 | 1,013 | 232 |
| 9/7/2015 | 952 | 163 | 762 | 189 |
| 9/8/2015 | 1,054 | 167 | 860 | 193 |
| 9/9/2015 | 1,180 | 185 | 969 | 211 |
| 9/10/2015 | 1,345 | 446 | 873 | 472 |
| 9/11/2015 | 1,348 | 280 | 1,042 | 306 |
| 9/12/2015 | 1,354 | 220 | 1,108 | 246 |
| 9/13/2015 | 1,276 | 213 | 1,037 | 239 |
| 9/14/2015 | 1,398 | 359 | 1,013 | 385 |
| 9/15/2015 | 1,203 | 262 | 915 | 288 |
| 9/16/2015 | 1,234 | 230 | 978 | 256 |
| 9/17/2015 | 1,328 | 335 | 967 | 361 |
| 9/18/2015 | 1,133 | 337 | 770 | 363 |
| 9/19/2015 | 977 | 197 | 754 | 223 |
| 9/20/2015 | 1,026 | 160 | 839 | 186 |
| 9/21/2015 | 1,147 | 165 | 956 | 191 |
| 9/22/2015 | 1,155 | 171 | 958 | 197 |
| 9/23/2015 | 1,208 | 302 | 879 | 328 |
| 9/24/2015 | 1,081 | 206 | 850 | 232 |
| 9/25/2015 | 1,183 | 173 | 984 | 199 |
| 9/26/2015 | 1,144 | 305 | 812 | 331 |
| 9/27/2015 | 1,050 | 205 | 819 | 231 |
| 9/28/2015 | 1,198 | 309 | 863 | 335 |
| 9/29/2015 | 1,181 | 205 | 950 | 231 |
| 9/30/2015 | 1,081 | 174 | 882 | 200 |
| | **gpm** | **gpd** | | |
| **Average** | **1,170** | **1,685,044** | | |
| **Peak** | **1,398** | **2,012,825** | **Peak Date** | **9/14/2015** |

## October 2015

| Date | Site Outfall flow Average (gpm) | AWN Unreg/Dil Flows (gpm) | Regulated Flows Average | Unreg/Dil Flows Average |
|---|---|---|---|---|
| 10/1/2015 | 1,058 | 171 | 861 | 197 |
| 10/2/2015 | 1,179 | 306 | 848 | 332 |
| 10/3/2015 | 1,131 | 201 | 904 | 227 |
| 10/4/2015 | 1,176 | 305 | 844 | 331 |
| 10/5/2015 | 1,090 | 201 | 862 | 227 |
| 10/6/2015 | 1,146 | 169 | 951 | 195 |
| 10/7/2015 | 1,239 | 167 | 1,046 | 193 |
| 10/8/2015 | 1,277 | 304 | 947 | 330 |
| 10/9/2015 | 1,075 | 200 | 849 | 226 |
| 10/10/2015 | 1,051 | 165 | 861 | 191 |
| 10/11/2015 | 1,082 | 167 | 889 | 193 |
| 10/12/2015 | 1,308 | 441 | 841 | 467 |
| 10/13/2015 | 1,100 | 241 | 832 | 267 |
| 10/14/2015 | 1,079 | 170 | 883 | 196 |
| 10/15/2015 | 1,273 | 175 | 1,073 | 201 |
| 10/16/2015 | 1,193 | 180 | 987 | 206 |
| 10/17/2015 | 1,390 | 321 | 1,044 | 347 |
| 10/18/2015 | 1,223 | 217 | 980 | 243 |
| 10/19/2015 | 1,418 | 322 | 1,070 | 348 |
| 10/20/2015 | 1,308 | 220 | 1,062 | 246 |
| 10/21/2015 | 1,464 | 318 | 1,120 | 344 |
| 10/22/2015 | 1,393 | 218 | 1,149 | 244 |
| 10/23/2015 | 1,356 | 187 | 1,143 | 213 |
| 10/24/2015 | 1,257 | 181 | 1,050 | 207 |
| 10/25/2015 | 1,343 | 186 | 1,131 | 212 |
| 10/26/2015 | 1,440 | 320 | 1,094 | 346 |
| 10/27/2015 | 1,368 | 356 | 985 | 382 |
| 10/28/2015 | 1,358 | 221 | 1,111 | 247 |
| 10/29/2015 | 1,477 | 188 | 1,263 | 214 |
| 10/30/2015 | 1,608 | 325 | 1,257 | 351 |
| 10/31/2015 | 1,294 | 218 | 1,050 | 244 |
| | **gpm** | **gpd** | | |
| **Average** | **1,263** | **1,818,684** | | |
| **Peak** | **1,608** | **2,315,367** | **Peak Date** | **10/30/2015** |

## November 2015

| Date | Site Outfall flow Average (gpm) | AWN Unreg/Dil Flows (gpm) | Regulated Flows Average | Unreg/Dil Flows Average |
|---|---|---|---|---|
| 11/1/2015 | 1,277 | 182 | 1,069 | 208 |
| 11/2/2015 | 1,438 | 322 | 1,090 | 348 |
| 11/3/2015 | 1,429 | 225 | 1,177 | 251 |
| 11/4/2015 | 1,468 | 324 | 1,118 | 350 |
| 11/5/2015 | 1,397 | 225 | 1,146 | 251 |
| 11/6/2015 | 1,555 | 185 | 1,344 | 211 |
| 11/7/2015 | 1,456 | 322 | 1,108 | 348 |
| 11/8/2015 | 1,319 | 217 | 1,076 | 243 |
| 11/9/2015 | 1,326 | 182 | 1,118 | 208 |
| 11/10/2015 | 1,535 | 322 | 1,187 | 348 |
| 11/11/2015 | 1,485 | 355 | 1,104 | 381 |
| 11/12/2015 | 1,355 | 221 | 1,108 | 247 |
| 11/13/2015 | 1,418 | 188 | 1,204 | 214 |
| 11/14/2015 | 1,414 | 182 | 1,206 | 208 |
| 11/15/2015 | 1,480 | 319 | 1,135 | 345 |
| 11/16/2015 | 1,357 | 218 | 1,113 | 244 |
| 11/17/2015 | 1,383 | 184 | 1,173 | 210 |
| 11/18/2015 | 1,501 | 324 | 1,152 | 350 |
| 11/19/2015 | 1,498 | 358 | 1,115 | 384 |
| 11/20/2015 | 1,372 | 225 | 1,121 | 251 |
| 11/21/2015 | 1,554 | 192 | 1,336 | 218 |
| 11/22/2015 | 1,402 | 194 | 1,182 | 220 |
| 11/23/2015 | 1,539 | 326 | 1,188 | 352 |
| 11/24/2015 | 1,428 | 228 | 1,174 | 254 |
| 11/25/2015 | 1,551 | 322 | 1,203 | 348 |
| 11/26/2015 | 1,411 | 218 | 1,167 | 244 |
| 11/27/2015 | 1,491 | 323 | 1,142 | 349 |
| 11/28/2015 | 1,513 | 215 | 1,272 | 241 |
| 11/29/2015 | 1,381 | 183 | 1,173 | 209 |
| 11/30/2015 | 1,590 | 191 | 1,373 | 217 |
| | **gpm** | **gpd** | | |
| **Average** | **1,450** | **2,087,772** | | |
| **Peak** | **1,590** | **2,289,823** | **Peak Date** | **11/30/2015** |

## December 2015

| Date | Site Outfall flow Average (gpm) | AWN Unreg/Dil Flows (gpm) | Regulated Flows Average | Unreg/Dil Flows Average |
|---|---|---|---|---|
| 12/1/2015 | 1,494 | 326 | 1,142 | 352 |
| 12/2/2015 | 1,606 | 355 | 1,225 | 381 |
| 12/3/2015 | 1,437 | 226 | 1,184 | 252 |
| 12/4/2015 | 1,498 | 188 | 1,284 | 214 |
| 12/5/2015 | 1,415 | 323 | 1,066 | 349 |
| 12/6/2015 | 1,544 | 223 | 1,295 | 249 |
| 12/7/2015 | 1,409 | 190 | 1,193 | 216 |
| 12/8/2015 | 1,543 | 324 | 1,193 | 350 |
| 12/9/2015 | 1,526 | 360 | 1,140 | 386 |
| 12/10/2015 | 1,351 | 221 | 1,104 | 247 |
| 12/11/2015 | 1,345 | 179 | 1,139 | 205 |
| 12/12/2015 | 1,529 | 321 | 1,183 | 347 |
| 12/13/2015 | 1,517 | 215 | 1,276 | 241 |
| 12/14/2015 | 1,465 | 199 | 1,240 | 225 |
| 12/15/2015 | 1,541 | 200 | 1,315 | 226 |
| 12/16/2015 | 1,649 | 319 | 1,304 | 345 |
| 12/17/2015 | 1,391 | 344 | 1,021 | 370 |
| 12/18/2015 | 1,242 | 205 | 1,010 | 231 |
| 12/19/2015 | 1,201 | 164 | 1,010 | 190 |
| 12/20/2015 | 1,334 | 163 | 1,145 | 189 |
| 12/21/2015 | 1,348 | 300 | 1,022 | 326 |
| 12/22/2015 | 1,202 | 199 | 977 | 225 |
| 12/23/2015 | 1,179 | 163 | 990 | 189 |
| 12/24/2015 | 1,315 | 169 | 1,120 | 195 |
| 12/25/2015 | 1,389 | 442 | 921 | 468 |
| 12/26/2015 | 1,306 | 247 | 1,032 | 273 |
| 12/27/2015 | 1,376 | 185 | 1,165 | 211 |
| 12/28/2015 | 1,543 | 180 | 1,336 | 206 |
| 12/29/2015 | 1,571 | 326 | 1,219 | 352 |
| 12/30/2015 | 1,381 | 217 | 1,138 | 243 |
| 12/31/2015 | 1,421 | 186 | 1,209 | 212 |
| | **gpm** | **gpd** | | |
| **Average** | **1,422** | **2,046,975** | | |
| **Peak** | **1,649** | **2,374,502** | **Peak Date** | **12/16/2015** |

**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.

* * * *

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

* * * *

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: 1/26/16

Signature: _____ Title: NM Corporate Services Manager

Authorized Representative

## 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: 1/26/16

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 wastestream, 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)

* * * *

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: 1/26/16

Signature: Mindy Kah Title: NM Corporate Services Manager

Authorized Representative

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 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

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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.

| Shipping Doc. Number | Ship Date | Profile Number | Waste Name | Quantity (lbs) | Quantity (tons) | Haz/ Non-Haz |
|---|---|---|---|---|---|---|
| 013489888JJK | 7/1/2015 | 7919597 | Slurry Copper Wastewater Resin | 1671 | 0.8355 | H |
| 907634VES | 7/2/2015 | 448115 | SOLVENT, GENERAL FAB 11S | 33260 | 16.63 | Y |
| 202865 | 7/2/2015 | 529928 | SLUDGE, CALCIUM FLUORIDE | 14220 | 7.11 | N |
| 70218 | 7/4/2015 | 529928 | SLUDGE, CALCIUM FLUORIDE | 17180 | 8.59 | N |
| 202866 | 7/6/2015 | 529928 | SLUDGE, CALCIUM FLUORIDE | 13180 | 6.59 | N |
| 911254VES | 7/8/2015 | 692208 | SOLVENT, CORROSIVE - FAB 11 (D002) | 40980 | 20.49 | Y |
| 70219 | 7/8/2015 | 529928 | SLUDGE, CALCIUM FLUORIDE | 13740 | 6.87 | N |
| 70220 | 7/10/2015 | 529928 | SLUDGE, CALCIUM FLUORIDE | 16820 | 8.41 | N |
| 70221 | 7/12/2015 | 529928 | SLUDGE, CALCIUM FLUORIDE | 16700 | 8.35 | N |
| 70222 | 7/14/2015 | 529928 | SLUDGE, CALCIUM FLUORIDE | 14220 | 7.11 | N |
| 013489889JJK | 7/15/2015 | 7919597 | Slurry Copper Wastewater Resin | 1654 | 0.827 | H |
| 911255VES | 7/15/2015 | 692208 | SOLVENT, CORROSIVE - FAB 11 (D002) | 40100 | 20.05 | Y |
| 202867 | 7/16/2015 | 529928 | SLUDGE, CALCIUM FLUORIDE | 16460 | 8.23 | N |
| 70223 | 7/18/2015 | 529928 | SLUDGE, CALCIUM FLUORIDE | 13480 | 6.74 | N |
| 907608VES | 7/20/2015 | 699331 | SOLVENT, SLAM | 23300 | 11.65 | Y |
| 202868 | 7/20/2015 | 529928 | SLUDGE, CALCIUM FLUORIDE | 13200 | 6.6 | N |
| 70224 | 7/21/2015 | 529928 | SLUDGE, CALCIUM FLUORIDE | 13940 | 6.97 | N |
| 911365VES | 7/22/2015 | 692208 | SOLVENT, CORROSIVE - FAB 11 (D002) | 37900 | 18.95 | Y |
| 202869 | 7/23/2015 | 529928 | SLUDGE, CALCIUM FLUORIDE | 15760 | 7.88 | N |
| 70225 | 7/25/2015 | 529928 | SLUDGE, CALCIUM FLUORIDE | 16400 | 8.2 | N |
| 202870 | 7/27/2015 | 529928 | SLUDGE, CALCIUM FLUORIDE | 15500 | 7.75 | N |
| 70226 | 7/28/2015 | 529928 | SLUDGE, CALCIUM FLUORIDE | 14120 | 7.06 | N |
| 911366VES | 7/29/2015 | 692208 | SOLVENT, CORROSIVE - FAB 11 (D002) | 37480 | 18.74 | Y |
| 202871 | 7/30/2015 | 529928 | SLUDGE, CALCIUM FLUORIDE | 16520 | 8.26 | N |
| 70227 | 8/1/2015 | 529928 | SLUDGE, CALCIUM FLUORIDE | 13960 | 6.98 | N |
| 907635VES | 8/3/2015 | 448115 | SOLVENT, GENERAL FAB 11S | 41720 | 20.86 | Y |
| 202872 | 8/3/2015 | 529928 | SLUDGE, CALCIUM FLUORIDE | 12960 | 6.48 | N |
| 70228 | 8/4/2015 | 529928 | SLUDGE, CALCIUM FLUORIDE | 10680 | 5.34 | N |
| 911367VES | 8/5/2015 | 692208 | SOLVENT, CORROSIVE - FAB 11 (D002) | 40440 | 20.22 | Y |
| 202873 | 8/6/2015 | 529928 | SLUDGE, CALCIUM FLUORIDE | 15640 | 7.82 | N |
| 70229 | 8/8/2015 | 529928 | SLUDGE, CALCIUM FLUORIDE | 15740 | 7.87 | N |
| 70230 | 8/9/2015 | 529928 | SLUDGE, CALCIUM FLUORIDE | 12960 | 6.48 | N |
| 70231 | 8/11/2015 | 529928 | SLUDGE, CALCIUM FLUORIDE | 13100 | 6.55 | N |
| 013489890JJK | 8/12/2015 | 7919597 | Slurry Copper Wastewater Resin | 1729 | 0.8645 | H |

| Shipping Doc. Number | Ship Date | Profile Number | Waste Name | Quantity (lbs) | Quantity (tons) | Haz/ Non-Haz |
|---|---|---|---|---|---|---|
| 911369VES | 8/13/2015 | 692208 | SOLVENT, CORROSIVE - FAB 11 (D002) | 40320 | 20.16 | Y |
| 202874 | 8/13/2015 | 529928 | SLUDGE, CALCIUM FLUORIDE | 16020 | 8.01 | N |
| 70232 | 8/15/2015 | 529928 | SLUDGE, CALCIUM FLUORIDE | 13140 | 6.57 | N |
| 202875 | 8/17/2015 | 529928 | SLUDGE, CALCIUM FLUORIDE | 15240 | 7.62 | N |
| 70233 | 8/19/2015 | 529928 | SLUDGE, CALCIUM FLUORIDE | 13220 | 6.61 | N |
| 911368VES | 8/20/2015 | 692208 | SOLVENT, CORROSIVE - FAB 11 (D002) | 40580 | 20.29 | Y |
| 202877 | 8/20/2015 | 529928 | SLUDGE, CALCIUM FLUORIDE | 12920 | 6.46 | N |
| 70234 | 8/22/2015 | 529928 | SLUDGE, CALCIUM FLUORIDE | 15580 | 7.79 | N |
| 202878 | 8/24/2015 | 529928 | SLUDGE, CALCIUM FLUORIDE | 12580 | 6.29 | N |
| 013489891JJK | 8/26/2015 | 7919597 | Slurry Copper Wastewater Resin | 1731 | 0.8655 | H |
| 70235 | 8/26/2015 | 529928 | SLUDGE, CALCIUM FLUORIDE | 13600 | 6.8 | N |
| 640164VES | 8/27/2015 | 399773 | SOLVENTS, HMDS | 68 | 0.034 | Y |
| 640164VES | 8/27/2015 | 399825 | EDT PARTS | 181 | 0.0905 | Y |
| 640164VES | 8/27/2015 | 442913 | DEBRIS, ARSENIC | 743 | 0.3715 | Y |
| 640164VES | 8/27/2015 | 442923 | DEBRIS, MERCURY | 11 | 0.0055 | Y |
| 640164VES | 8/27/2015 | 442983 | REPEATING LABPACK | 215 | 0.1075 | Y |
| 640164VES | 8/27/2015 | 533335 | DEBRIS, SOLVENT-HAZARDOUS | 247 | 0.1235 | Y |
| 640164VES | 8/27/2015 | 686138 | DEBRIS, INP FILTER, HAZARDOUS | 50 | 0.025 | Y |
| 640164VES | 8/27/2015 | 691900 | DEBRIS, HOUSE VACUUM | 151 | 0.0755 | Y |
| 640164VES | 8/27/2015 | 693403 | SOLVENTS, SPIN ON GLASS | 405 | 0.2025 | Y |
| 640164VES | 8/27/2015 | 713453 | HMDS DEBRIS | 95 | 0.0475 | Y |
| 911370VES | 8/27/2015 | 692208 | SOLVENT, CORROSIVE - FAB 11 (D002) | 39940 | 19.97 | Y |
| 202876 | 8/27/2015 | 202100 | IPA CONTAMINATED WIPERS | 2075 | 1.0375 | N |
| 202876 | 8/27/2015 | 442694 | BATTERIES, LEAD ACID - NON SPILLABLE | 894 | 0.447 | N |
| 202876 | 8/27/2015 | 442912 | LAMPS, MERCURY | 50 | 0.025 | N |
| 202876 | 8/27/2015 | 442912 | LAMPS, MERCURY | 531 | 0.2655 | N |
| 202876 | 8/27/2015 | 442912 | LAMPS, MERCURY | 247 | 0.1235 | N |
| 202876 | 8/27/2015 | 442912 | LAMPS, MERCURY | 39 | 0.0195 | N |
| 202876 | 8/27/2015 | 532526 | SLUDGE, ION EXCHANGE | 418 | 0.209 | N |
| 202876 | 8/27/2015 | 532530 | USED OIL | 350 | 0.175 | N |
| 202876 | 8/27/2015 | 532537 | BATTERIES, LEAD/ACID-WET | 826 | 0.413 | N |
| 202876 | 8/27/2015 | 591360 | LATEX PAINT RELATED MATERIALS | 260 | 0.13 | N |
| 202876 | 8/27/2015 | 693767 | GLYCOLS - HEAT TRANSFER FLUIDS | 25 | 0.0125 | N |
| 202879 | 8/27/2015 | 529928 | SLUDGE, CALCIUM FLUORIDE | 15760 | 7.88 | N |

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|---|---|---|---|---|---|---|
| 70238 | 8/29/2015 | 529928 | SLUDGE, CALCIUM FLUORIDE | 13240 | 6.62 | N |
| 202880 | 8/31/2015 | 529928 | SLUDGE, CALCIUM FLUORIDE | 15440 | 7.72 | N |
| 70239 | 9/2/2015 | 529928 | SLUDGE, CALCIUM FLUORIDE | 13280 | 6.64 | N |
| 911371VES | 9/3/2015 | 692208 | SOLVENT, CORROSIVE - FAB 11 (D002) | 40000 | 20 | Y |
| 70240 | 9/4/2015 | 529928 | SLUDGE, CALCIUM FLUORIDE | 16220 | 8.11 | N |
| 70241 | 9/6/2015 | 529928 | SLUDGE, CALCIUM FLUORIDE | 13360 | 6.68 | N |
| 907636VES | 9/7/2015 | 448115 | SOLVENT, GENERAL FAB 11S | 39680 | 19.84 | Y |
| 70242 | 9/8/2015 | 529928 | SLUDGE, CALCIUM FLUORIDE | 15500 | 7.75 | N |
| 013489892JJK | 9/9/2015 | 7919597 | Slurry Copper Wastewater Resin | 3518 | 1.759 | H |
| 202881 | 9/10/2015 | 529928 | SLUDGE, CALCIUM FLUORIDE | 13020 | 6.51 | N |
| 70243 | 9/12/2015 | 529928 | SLUDGE, CALCIUM FLUORIDE | 12740 | 6.37 | N |
| 911372VES | 9/14/2015 | 692208 | SOLVENT, CORROSIVE - FAB 11 (D002) | 41320 | 20.66 | Y |
| 202882 | 9/14/2015 | 529928 | SLUDGE, CALCIUM FLUORIDE | 13380 | 6.69 | N |
| 202883 | 9/17/2015 | 529928 | SLUDGE, CALCIUM FLUORIDE | 15700 | 7.85 | N |
| 70244 | 9/19/2015 | 529928 | SLUDGE, CALCIUM FLUORIDE | 14240 | 7.12 | N |
| 911373VES | 9/22/2015 | 692208 | SOLVENT, CORROSIVE - FAB 11 (D002) | 40980 | 20.49 | Y |
| 70245 | 9/23/2015 | 529928 | SLUDGE, CALCIUM FLUORIDE | 13700 | 6.85 | N |
| 202885 | 9/24/2015 | 529928 | SLUDGE, CALCIUM FLUORIDE | 15980 | 7.99 | N |
| 70246 | 9/27/2015 | 529928 | SLUDGE, CALCIUM FLUORIDE | 16300 | 8.15 | N |
| 911374VES | 9/28/2015 | 692208 | SOLVENT, CORROSIVE - FAB 11 (D002) | 40440 | 20.22 | Y |
| 70247 | 9/29/2015 | 529928 | SLUDGE, CALCIUM FLUORIDE | 13720 | 6.86 | N |
| 907638VES | 9/30/2015 | 448115 | SOLVENT, GENERAL FAB 11S | 32580 | 16.29 | Y |
| 013489893JJK | 10/7/2015 | 7919597 | Slurry Copper Wastewater Resin | 1760 | 0.88 | H |
| 013489894JJK | 10/21/2015 | 7919597 | Slurry Copper Wastewater Resin | 1695 | 0.8475 | H |
| 013489895JJK | 11/4/2015 | 7919597 | Slurry Copper Wastewater Resin | 1570 | 0.785 | H |
| 012542305JJK | 11/18/2015 | 7919597 | Slurry Copper Wastewater Resin | 1759 | 0.8795 | H |
| 012542306JJK | 12/2/2015 | 7919597 | Slurry Copper Wastewater Resin | 1831 | 0.9155 | H |
| 012542307JJK | 12/18/2015 | 7919597 | Slurry Copper Wastewater Resin | 1639 | 0.8195 | H |
| 202887 | 10/1/2015 | 529928 | SLUDGE, CALCIUM FLUORIDE | 15860 | 7.93 | N |
| 70248 | 10/3/2015 | 529928 | SLUDGE, CALCIUM FLUORIDE | 15440 | 7.72 | N |
| 914055VES | 10/5/2015 | 692208 | SOLVENT, CORROSIVE - FAB 11 (D002) | 41160 | 20.58 | Y |
| 70249 | 10/6/2015 | 529928 | SLUDGE, CALCIUM FLUORIDE | 15700 | 7.85 | N |
| 202888 | 10/8/2015 | 529928 | SLUDGE, CALCIUM FLUORIDE | 14220 | 7.11 | N |
| 70250 | 10/9/2015 | 529928 | SLUDGE, CALCIUM FLUORIDE | 11860 | 5.93 | N |
| 202889 | 10/12/2015 | 529928 | SLUDGE, CALCIUM FLUORIDE | 15140 | 7.57 | N |

| Shipping Doc. Number | Ship Date | Profile Number | Waste Name | Quantity (lbs) | Quantity (tons) | Haz/ Non-Haz |
|---|---|---|---|---|---|---|
| 914057VES | 10/13/2015 | 692208 | SOLVENT, CORROSIVE - FAB 11 (D002) | 41300 | 20.65 | Y |
| 70251 | 10/14/2015 | 529928 | SLUDGE, CALCIUM FLUORIDE | 13900 | 6.95 | N |
| 640165VES | 10/16/2015 | 483253 | SOLVENT, GENERAL-MIXED | 37060 | 18.53 | Y |
| 70252 | 10/16/2015 | 529928 | SLUDGE, CALCIUM FLUORIDE | 14280 | 7.14 | N |
| 914058VES | 10/19/2015 | 692208 | SOLVENT, CORROSIVE - FAB 11 (D002) | 39600 | 19.8 | Y |
| 202890 | 10/19/2015 | 529928 | SLUDGE, CALCIUM FLUORIDE | 13080 | 6.54 | N |
| 70253 | 10/20/2015 | 529928 | SLUDGE, CALCIUM FLUORIDE | 13900 | 6.95 | N |
| 70254 | 10/23/2015 | 529928 | SLUDGE, CALCIUM FLUORIDE | 14320 | 7.16 | N |
| 70255 | 10/25/2015 | 529928 | SLUDGE, CALCIUM FLUORIDE | 14180 | 7.09 | N |
| 202892 | 10/27/2015 | 202100 | IPA CONTAMINATED WIPERS | 2521 | 1.2605 | N |
| 202892 | 10/27/2015 | 442912 | LAMPS, MERCURY | 122 | 0.061 | N |
| 202892 | 10/27/2015 | 442983 | REPEATING LABPACK | 90 | 0.045 | N |
| 202892 | 10/27/2015 | 532530 | USED OIL | 902 | 0.451 | N |
| 202892 | 10/27/2015 | 592227 | FLUOROCARBONS, PERFLUORINATED POLYETHERS | 1415 | 0.7075 | N |
| 202892 | 10/27/2015 | 699340 | USED OIL, POLYALKYLENE GLYCOL | 312 | 0.156 | N |
| 202892 | 10/27/2015 | 713444 | MIXED BATTERIES (UNIVERSAL-WASTE BAT) | 635 | 0.3175 | N |
| 70256 | 10/27/2015 | 529928 | SLUDGE, CALCIUM FLUORIDE | 10180 | 5.09 | N |
| 914059VES | 10/28/2015 | 692208 | SOLVENT, CORROSIVE - FAB 11 (D002) | 40020 | 20.01 | Y |
| 202891 | 10/29/2015 | 529928 | SLUDGE, CALCIUM FLUORIDE | 14660 | 7.33 | N |
| 70257 | 10/31/2015 | 529928 | SLUDGE, CALCIUM FLUORIDE | 13120 | 6.56 | N |
| 202893 | 11/2/2015 | 529928 | SLUDGE, CALCIUM FLUORIDE | 13820 | 6.91 | N |
| 640166VES | 11/3/2015 | 366524 | AEROSOL CANS | 24 | 0.012 | Y |
| 640166VES | 11/3/2015 | 399773 | SOLVENTS, HMDS | 36 | 0.018 | Y |
| 640166VES | 11/3/2015 | 442913 | DEBRIS, ARSENIC | 700 | 0.35 | Y |
| 640166VES | 11/3/2015 | 442914 | ARSENIC CONTAMINATED SLURRY MATERIAL | 299 | 0.1495 | Y |
| 640166VES | 11/3/2015 | 442923 | DEBRIS, MERCURY | 10 | 0.005 | Y |
| 640166VES | 11/3/2015 | 442983 | REPEATING LABPACK | 89 | 0.0445 | Y |
| 640166VES | 11/3/2015 | 442983 | REPEATING LABPACK | 32 | 0.016 | Y |
| 640166VES | 11/3/2015 | 533335 | DEBRIS, SOLVENT-HAZARDOUS | 352 | 0.176 | Y |
| 640166VES | 11/3/2015 | 686138 | DEBRIS, INP FILTER, HAZARDOUS | 58 | 0.029 | Y |
| 640166VES | 11/3/2015 | 692557 | CYLINDERS, COMPRESSED GASES | 15 | 0.0075 | Y |
| 640166VES | 11/3/2015 | 693403 | SOLVENTS, SPIN ON GLASS | 266 | 0.133 | Y |
| 640166VES | 11/3/2015 | 713453 | HMDS DEBRIS | 81 | 0.0405 | Y |

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|---|---|---|---|---|---|---|
| 914060VES | 11/5/2015 | 692208 | SOLVENT, CORROSIVE - FAB 11 (D002) | 38080 | 19.04 | Y |
| 202894 | 11/5/2015 | 529928 | SLUDGE, CALCIUM FLUORIDE | 13600 | 6.8 | N |
| 70258 | 11/7/2015 | 529928 | SLUDGE, CALCIUM FLUORIDE | 14640 | 7.32 | N |
| 202895 | 11/9/2015 | 529928 | SLUDGE, CALCIUM FLUORIDE | 13940 | 6.97 | N |
| 70259 | 11/11/2015 | 529928 | SLUDGE, CALCIUM FLUORIDE | 10960 | 5.48 | N |
| 70260 | 11/13/2015 | 529928 | SLUDGE, CALCIUM FLUORIDE | 13820 | 6.91 | N |
| 905253VES | 11/16/2015 | 692208 | SOLVENT, CORROSIVE - FAB 11 (D002) | 41440 | 20.72 | Y |
| 70262 | 11/17/2015 | 529928 | SLUDGE, CALCIUM FLUORIDE | 14060 | 7.03 | N |
| 70263 | 11/20/2015 | 529928 | SLUDGE, CALCIUM FLUORIDE | 17020 | 8.51 | N |
| 5245744FLE | 11/23/2015 | DECANTGSOLVE470 | Decant Gensolve 470 Corrosive | 10 | 0.005 | Y |
| 5245747FLE | 11/23/2015 | DecanCMPCleanBG | Decant Drum CMP Cleaner BG1 | 10 | 0.005 | Y |
| 5245747FLE | 11/23/2015 | Decant KOH 10% | Decant Drum Potassium Hydroxide 10% | 12 | 0.006 | Y |
| 5245747FLE | 11/23/2015 | Decant MCX-i4C | Decant Drum MCX-i4C | 5 | 0.0025 | Y |
| 5245747FLE | 11/23/2015 | Decant PBR-40 | Decant Drum PBR 40 | 11 | 0.0055 | Y |
| 5245747FLE | 11/23/2015 | Decant PGMEA-PM | Decant Drum PGMEA - PM Acetate | 10 | 0.005 | Y |
| 70264 | 11/23/2015 | 529928 | SLUDGE, CALCIUM FLUORIDE | 14220 | 7.11 | N |
| 905254VES | 11/24/2015 | 692208 | SOLVENT, CORROSIVE - FAB 11 (D002) | 39080 | 19.54 | Y |
| 5245742FLE | 11/25/2015 | Decant MCX-i4C | Decant Drum MCX-i4C | 3 | 0.0015 | Y |
| 5245742FLE | 11/25/2015 | Decant PBR-40 | Decant Drum PBR 40 | 11 | 0.0055 | Y |
| 5245748FLE | 11/25/2015 | DECANTGSOLVE470 | Decant Gensolve 470 Corrosive | 11 | 0.0055 | Y |
| 70265 | 11/25/2015 | 529928 | SLUDGE, CALCIUM FLUORIDE | 13840 | 6.92 | N |
| 70266 | 11/27/2015 | 529928 | SLUDGE, CALCIUM FLUORIDE | 16860 | 8.43 | N |
| 907639VES | 11/29/2015 | 448115 | SOLVENT, GENERAL FAB 11S | 39460 | 19.73 | Y |
| 5245751FLE | 11/30/2015 | DECANTGSOLVE470 | Decant Gensolve 470 Corrosive | 11 | 0.0055 | Y |
| 5245752FLE | 11/30/2015 | Decant KOH 10% | Decant Drum Potassium Hydroxide 10% | 12 | 0.006 | Y |
| 5245752FLE | 11/30/2015 | Decant PBR-40 | Decant Drum PBR 40 | 21 | 0.0105 | Y |
| 5245752FLE | 11/30/2015 | Decant PGMEA-PM | Decant Drum PGMEA - PM Acetate | 10 | 0.005 | Y |
| 70267 | 11/30/2015 | 529928 | SLUDGE, CALCIUM FLUORIDE | 10880 | 5.44 | N |
| 70268 | 12/2/2015 | 529928 | SLUDGE, CALCIUM FLUORIDE | 13820 | 6.91 | N |
| 914061VES | 12/3/2015 | 692208 | SOLVENT, CORROSIVE - FAB 11 (D002) | 37280 | 18.64 | Y |
| 5245750FLE | 12/3/2015 | DECANTGSOLVE470 | Decant Gensolve 470 Corrosive | 11 | 0.0055 | Y |
| 5245753FLE | 12/3/2015 | Decant MCX-i4C | Decant Drum MCX-i4C | 11 | 0.0055 | Y |
| 5245753FLE | 12/3/2015 | Decant PBR-40 | Decant Drum PBR 40 | 11 | 0.0055 | Y |
| 5245753FLE | 12/3/2015 | Decant PGMEA-PM | Decant Drum PGMEA - PM Acetate | 10 | 0.005 | Y |

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|---|---|---|---|---|---|---|
| 70269 | 12/4/2015 | 529928 | SLUDGE, CALCIUM FLUORIDE | 14000 | 7 | N |
| 5245755FLE | 12/7/2015 | DECANTGSOLVE470 | Decant Gensolve 470 Corrosive | 11 | 0.0055 | Y |
| 5245756FLE | 12/7/2015 | Decant KOH 10% | Decant Drum Potassium Hydroxide 10% | 12 | 0.006 | Y |
| 5245756FLE | 12/7/2015 | Decant PBR-40 | Decant Drum PBR 40 | 11 | 0.0055 | Y |
| 5245756FLE | 12/7/2015 | Decant PGMEA-PM | Decant Drum PGMEA - PM Acetate | 3 | 0.0015 | Y |
| 70270 | 12/7/2015 | 529928 | SLUDGE, CALCIUM FLUORIDE | 13500 | 6.75 | N |
| 70271 | 12/8/2015 | 529928 | SLUDGE, CALCIUM FLUORIDE | 14160 | 7.08 | N |
| 640168VES | 12/10/2015 | 483253 | SOLVENT, GENERAL-MIXED | 39762 | 19.881 | Y |
| 5245758FLE | 12/10/2015 | Decant MCX-i4C | Decant Drum MCX-i4C | 11 | 0.0055 | Y |
| 5245758FLE | 12/10/2015 | Decant PBR-40 | Decant Drum PBR 40 | 21 | 0.0105 | Y |
| 5245760FLE | 12/10/2015 | DECANTGSOLVE470 | Decant Gensolve 470 Corrosive | 11 | 0.0055 | Y |
| 70272 | 12/11/2015 | 529928 | SLUDGE, CALCIUM FLUORIDE | 16740 | 8.37 | N |
| 70273 | 12/13/2015 | 529928 | SLUDGE, CALCIUM FLUORIDE | 13760 | 6.88 | N |
| 905255VES | 12/14/2015 | 692208 | SOLVENT, CORROSIVE - FAB 11 (D002) | 41160 | 20.58 | Y |
| 5245761FLE | 12/14/2015 | DECANTGSOLVE470 | Decant Gensolve 470 Corrosive | 11 | 0.0055 | Y |
| 5245764FLE | 12/14/2015 | Decant KOH 10% | Decant Drum Potassium Hydroxide 10% | 12 | 0.006 | Y |
| 5245764FLE | 12/14/2015 | Decant PBR-40 | Decant Drum PBR 40 | 11 | 0.0055 | Y |
| 5245764FLE | 12/14/2015 | Decant PGMEA-PM | Decant Drum PGMEA - PM Acetate | 10 | 0.005 | Y |
| 72767 | 12/16/2015 | 529928 | SLUDGE, CALCIUM FLUORIDE | 13600 | 6.8 | N |
| 72768 | 12/19/2015 | 529928 | SLUDGE, CALCIUM FLUORIDE | 14200 | 7.1 | N |
| 72769 | 12/21/2015 | 529928 | SLUDGE, CALCIUM FLUORIDE | 13920 | 6.96 | N |
| 5245765FLE | 12/22/2015 | DECANTGSOLVE470 | Decant Gensolve 470 Corrosive | 11 | 0.0055 | Y |
| 5245767FLE | 12/22/2015 | Decant MCX-i4C | Decant Drum MCX-i4C | 10 | 0.005 | Y |
| 5245767FLE | 12/22/2015 | Decant PBR-40 | Decant Drum PBR 40 | 21 | 0.0105 | Y |
| 5245767FLE | 12/22/2015 | Decant PGMEA-PM | Decant Drum PGMEA - PM Acetate | 10 | 0.005 | Y |
| 5245768FLE | 12/22/2015 | Decant KOH 10% | Decant Drum Potassium Hydroxide 10% | 12 | 0.006 | Y |
| 5245768FLE | 12/22/2015 | Decant MCX-i4C | Decant Drum MCX-i4C | 11 | 0.0055 | Y |
| 5245768FLE | 12/22/2015 | Decant PBR-40 | Decant Drum PBR 40 | 11 | 0.0055 | Y |
| 5245769FLE | 12/22/2015 | Decant CLK-222 | Decant Drum CLK-222,corrosive | 1852 | 0.926 | Y |
| 5245770FLE | 12/22/2015 | DECANTGSOLVE470 | Decant Gensolve 470 Corrosive | 11 | 0.0055 | Y |
| 914062VES | 12/23/2015 | 692208 | SOLVENT, CORROSIVE - FAB 11 (D002) | 40100 | 20.05 | Y |
| 914065VES | 12/23/2015 | 692208 | SOLVENT, CORROSIVE - FAB 11 (D002) | 40100 | 20.05 | Y |
| 72770 | 12/23/2015 | 529928 | SLUDGE, CALCIUM FLUORIDE | 11500 | 5.75 | N |
| 72771 | 12/26/2015 | 529928 | SLUDGE, CALCIUM FLUORIDE | 16720 | 8.36 | N |

| Shipping Doc. Number | Ship Date | Profile Number | Waste Name | Quantity (lbs) | Quantity (tons) | Haz/ Non-Haz |
|---|---|---|---|---|---|---|
| 5245773FLE | 12/28/2015 | DECANTGSOLVE470 | Decant Gensolve 470 Corrosive | 22 | 0.011 | Y |
| 72772 | 12/28/2015 | 529928 | SLUDGE, CALCIUM FLUORIDE | 10900 | 5.45 | N |
| 5245778FLE | 12/31/2015 | DECANTGSOLVE470 | Decant Gensolve 470 Corrosive | 11 | 0.0055 | Y |
| 72773 | 12/31/2015 | 529928 | SLUDGE, CALCIUM FLUORIDE | 14540 | 7.27 | N |

**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

July – August

Site Outfall Daily Minimum and Maximum pH Report

| Date | Minimum pH | Duration (min) | Maximum pH | Duration (min) | Date | Minimum pH | Duration (min) | Maximum pH | Duration (min) |
|---|---|---|---|---|---|---|---|---|---|
| 7/1/2015 | 6.77 | | 8.29 | | 8/1/2015 | 6.78 | | 8.59 | |
| 7/2/2015 | 6.92 | | 9.95 | | 8/2/2015 | 7.04 | | 9.12 | |
| 7/3/2015 | 6.69 | | 10.90 | | 8/3/2015 | 7.03 | | 11.41 | |
| 7/4/2015 | 6.70 | | 8.02 | | 8/4/2015 | 6.89 | | 9.29 | |
| 7/5/2015 | 6.61 | | 8.89 | | 8/5/2015 | 6.85 | | 9.64 | |
| 7/6/2015 | 6.86 | | 9.38 | | 8/6/2015 | 7.05 | | 8.74 | |
| 7/7/2015 | 6.77 | | 9.37 | | 8/7/2015 | 7.04 | | 11.23 | |
| 7/8/2015 | 6.66 | | 8.62 | | 8/8/2015 | 6.88 | | 9.18 | |
| 7/9/2015 | 6.73 | | 10.55 | | 8/9/2015 | 6.78 | | 9.77 | |
| 7/10/2015 | 6.85 | | 10.84 | | 8/10/2015 | 6.85 | | 8.46 | |
| 7/11/2015 | 6.78 | | 7.73 | | 8/11/2015 | 6.97 | | 11.32 | |
| 7/12/2015 | 6.71 | | 8.04 | | 8/12/2015 | 6.93 | | 8.39 | |
| 7/13/2015 | 6.91 | | 9.13 | | 8/13/2015 | 6.98 | | 9.68 | |
| 7/14/2015 | 6.80 | | 10.14 | | 8/14/2015 | 6.84 | | 8.36 | |
| 7/15/2015 | 6.94 | | 8.24 | | 8/15/2015 | 5.98 | | 10.00 | |
| 7/16/2015 | 6.91 | | 11.06 | | 8/16/2015 | 5.84 | | 8.90 | |
| 7/17/2015 | 6.86 | | 10.35 | | 8/17/2015 | 5.76 | | 8.80 | |
| 7/18/2015 | 6.96 | | 11.36 | | 8/18/2015 | 5.77 | | 8.31 | |
| 7/19/2015 | 6.77 | | 9.70 | | 8/19/2015 | 5.73 | | 8.32 | |
| 7/20/2015 | 6.73 | | 9.41 | | 8/20/2015 | 6.30 | | 8.66 | |
| 7/21/2015 | 6.97 | | 9.47 | | 8/21/2015 | 5.75 | | 10.00 | |
| 7/22/2015 | 6.78 | | 11.15 | | 8/22/2015 | 6.60 | | 10.26 | |
| 7/23/2015 | 6.75 | | 9.70 | | 8/23/2015 | 6.48 | | 10.09 | |
| 7/24/2015 | 6.73 | | 11.33 | | 8/24/2015 | 6.72 | | 9.94 | |
| 7/25/2015 | 6.97 | | 8.22 | | 8/25/2015 | 6.56 | | 8.93 | |
| 7/26/2015 | 7.02 | | 9.49 | | 8/26/2015 | 6.61 | | 9.04 | |
| 7/27/2015 | 6.77 | | 8.82 | | 8/27/2015 | 6.32 | | 8.58 | |
| 7/28/2015 | 6.94 | | 9.92 | | 8/28/2015 | 6.34 | | 10.81 | |
| 7/29/2015 | 6.66 | | 9.22 | | 8/29/2015 | 6.34 | | 8.88 | |
| 7/30/2015 | 6.95 | | 11.02 | | 8/30/2015 | 6.39 | | 9.78 | |
| 7/31/2015 | 6.87 | | 8.35 | | 8/31/2015 | 6.21 | | 8.84 | |
| July - Total Time pH Out of Range: | | | | 0 | August - Total Time pH Out of Range: | | | | 0 |

September – October

Site Outfall Daily Minimum and Maximum pH Report

| Date | Minimum pH | Duration (min) | Maximum pH | Duration (min) | Date | Minimum pH | Duration (min) | Maximum pH | Duration (min) |
|---|---|---|---|---|---|---|---|---|---|
| 9/1/2015 | 6.08 | | 9.15 | | 10/1/2015 | 5.96 | | 8.28 | |
| 9/2/2015 | 6.02 | | 9.74 | | 10/2/2015 | 6.00 | | 9.41 | |
| 9/3/2015 | 5.95 | | 10.02 | | 10/3/2015 | 5.90 | | 8.08 | |
| 9/4/2015 | 6.22 | | 9.65 | | 10/4/2015 | 5.94 | | 10.04 | |
| 9/5/2015 | 6.25 | | 9.45 | | 10/5/2015 | 5.83 | | 8.06 | |
| 9/6/2015 | 6.18 | | 9.52 | | 10/6/2015 | 5.87 | | 10.52 | |
| 9/7/2015 | 6.14 | | 9.15 | | 10/7/2015 | 5.77 | | 7.81 | |
| 9/8/2015 | 6.13 | | 10.25 | | 10/8/2015 | 5.76 | | 10.36 | |
| 9/9/2015 | 6.16 | | 10.53 | | 10/9/2015 | 5.91 | | 8.57 | |
| 9/10/2015 | 6.07 | | 7.69 | | 10/10/2015 | 5.89 | | 8.64 | |
| 9/11/2015 | 6.07 | | 10.46 | | 10/11/2015 | 5.85 | | 7.20 | |
| 9/12/2015 | 6.04 | | 7.60 | | 10/12/2015 | 5.90 | | 7.25 | |
| 9/13/2015 | 5.96 | | 8.93 | | 10/13/2015 | 6.17 | | 7.87 | |
| 9/14/2015 | 6.09 | | 8.30 | | 10/14/2015 | 6.07 | | 8.84 | |
| 9/15/2015 | 6.02 | | 10.29 | | 10/15/2015 | 6.05 | | 7.26 | |
| 9/16/2015 | 6.01 | | 9.08 | | 10/16/2015 | 6.27 | | 8.63 | |
| 9/17/2015 | 5.91 | | 8.09 | | 10/17/2015 | 5.96 | | 9.33 | |
| 9/18/2015 | 6.09 | | 8.56 | | 10/18/2015 | 6.20 | | 7.51 | |
| 9/19/2015 | 6.25 | | 7.73 | | 10/19/2015 | 6.12 | | 9.43 | |
| 9/20/2015 | 6.10 | | 7.83 | | 10/20/2015 | 6.26 | | 8.85 | |
| 9/21/2015 | 6.11 | | 8.25 | | 10/21/2015 | 5.98 | | 7.20 | |
| 9/22/2015 | 6.07 | | 10.65 | | 10/22/2015 | 6.00 | | 8.60 | |
| 9/23/2015 | 6.00 | | 7.47 | | 10/23/2015 | 6.00 | | 7.47 | |
| 9/24/2015 | 6.05 | | 8.32 | | 10/24/2015 | 6.04 | | 8.73 | |
| 9/25/2015 | 5.86 | | 9.26 | | 10/25/2015 | 6.00 | | 10.58 | |
| 9/26/2015 | 6.07 | | 9.21 | | 10/26/2015 | 6.03 | | 7.51 | |
| 9/27/2015 | 6.07 | | 8.32 | | 10/27/2015 | 6.07 | | 8.92 | |
| 9/28/2015 | 5.97 | | 8.80 | | 10/28/2015 | 6.15 | | 8.05 | |
| 9/29/2015 | 6.05 | | 8.78 | | 10/29/2015 | 6.02 | | 10.08 | |
| 9/30/2015 | 6.16 | | 10.69 | | 10/30/2015 | 6.08 | | 9.05 | |
| | | | | | 10/31/2015 | 6.07 | | 8.32 | |
| September - Total Time pH Out of Range: | | | | 0 | October - Total Time pH Out of Range: | | | | 0 |

November – December

Site Outfall Daily Minimum and Maximum pH Report

| Date | Minimum pH | Duration (min) | Maximum pH | Duration (min) | Date | Minimum pH | Duration (min) | Maximum pH | Duration (min) |
|---|---|---|---|---|---|---|---|---|---|
| 11/1/2015 | 6.18 | | 9.46 | | 12/1/2015 | 6.05 | | 8.80 | |
| 11/2/2015 | 6.08 | | 8.04 | | 12/2/2015 | 6.22 | | 8.61 | |
| 11/3/2015 | 6.09 | | 10.62 | | 12/3/2015 | 6.57 | | 10.42 | |
| 11/4/2015 | 6.03 | | 10.56 | | 12/4/2015 | 6.25 | | 9.61 | |
| 11/5/2015 | 6.35 | | 10.55 | | 12/5/2015 | 6.26 | | 8.84 | |
| 11/6/2015 | 6.12 | | 10.15 | | 12/6/2015 | 6.07 | | 9.36 | |
| 11/7/2015 | 6.14 | | 8.91 | | 12/7/2015 | 6.27 | | 8.98 | |
| 11/8/2015 | 6.13 | | 9.32 | | 12/8/2015 | 6.07 | | 8.56 | |
| 11/9/2015 | 6.07 | | 9.18 | | 12/9/2015 | 6.09 | | 8.27 | |
| 11/10/2015 | 5.95 | | 8.54 | | 12/10/2015 | 6.35 | | 8.70 | |
| 11/11/2015 | 5.97 | | 9.07 | | 12/11/2015 | 6.33 | | 9.15 | |
| 11/12/2015 | 6.13 | | 8.50 | | 12/12/2015 | 6.11 | | 9.20 | |
| 11/13/2015 | 6.01 | | 9.04 | | 12/13/2015 | 6.08 | | 7.73 | |
| 11/14/2015 | 5.97 | | 9.09 | | 12/14/2015 | 6.52 | | 10.64 | |
| 11/15/2015 | 6.04 | | 7.84 | | 12/15/2015 | 6.44 | | 9.39 | |
| 11/16/2015 | 6.19 | | 8.62 | | 12/16/2015 | 6.10 | | 7.18 | |
| 11/17/2015 | 6.12 | | 9.41 | | 12/17/2015 | 6.17 | | 8.81 | |
| 11/18/2015 | 6.08 | | 9.36 | | 12/18/2015 | 6.35 | | 9.06 | |
| 11/19/2015 | 6.04 | | 8.88 | | 12/19/2015 | 6.35 | | 9.13 | |
| 11/20/2015 | 6.31 | | 9.15 | | 12/20/2015 | 6.07 | | 8.77 | |
| 11/21/2015 | 6.11 | | 10.69 | | 12/21/2015 | 6.15 | | 8.78 | |
| 11/22/2015 | 6.37 | | 10.16 | | 12/22/2015 | 6.43 | | 8.72 | |
| 11/23/2015 | 6.13 | | 8.39 | | 12/23/2015 | 6.38 | | 8.88 | |
| 11/24/2015 | 6.24 | | 10.70 | | 12/24/2015 | 6.13 | | 6.97 | |
| 11/25/2015 | 6.03 | | 8.24 | | 12/25/2015 | 6.16 | | 8.32 | |
| 11/26/2015 | 6.11 | | 9.40 | | 12/26/2015 | 6.44 | | 8.97 | |
| 11/27/2015 | 6.03 | | 9.18 | | 12/27/2015 | 6.21 | | 9.19 | |
| 11/28/2015 | 6.04 | | 10.61 | | 12/28/2015 | 6.06 | | 8.56 | |
| 11/29/2015 | 6.11 | | 7.85 | | 12/29/2015 | 6.10 | | 10.76 | |
| 11/30/2015 | 6.00 | | 10.50 | | 12/30/2015 | 6.37 | | 8.90 | |
| | | | | | 12/31/2015 | 6.46 | | 10.32 | |
| November - Total Time pH Out of Range: | | | | 0 | December - 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

1/26/16
Date

**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.

* * * *

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: 1/26/16

Signature: Mindy Koh Title: NM Site Corporate Services Manager

Authorized Representative

**ENDORSEMENT INGA**

SPECIAL WASTESTREAM POLLUTANT LIMITATIONS FOR PERMIT 2021A

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

| POLLUTANT | MAXIMUM FOR ANY 1 DAY |
|---|---|
| Indium | 0.30 mg/l |
| Gallium | 0.60 ug/l |

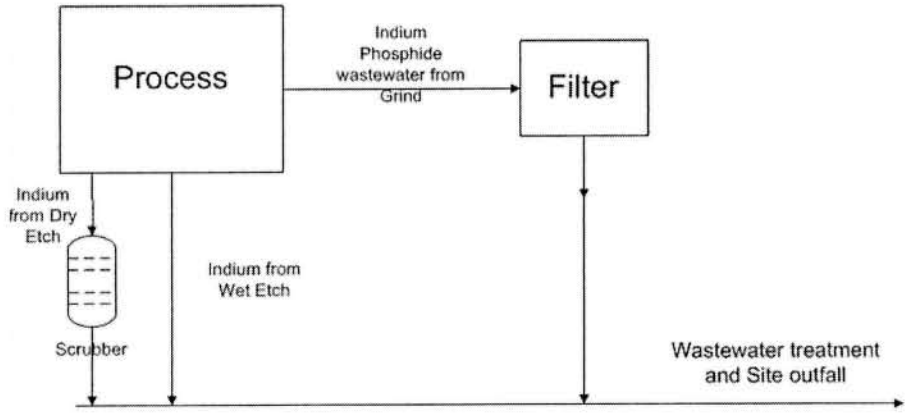
MONITORING REQUIREMENT: The permittee is required to sample the site discharge for the above pollutants semi-annually. Each semi-annual monitoring event must be performed four day in a row using a 24-hour composite sample. All analysis must be done using EPA approved methods. If the EPA method is not 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 outfall.

REPORTING REQUIREMENT: Submit production values and calculations in each semi-annual report that show the concentrations of the above pollutants at the site outfall.

| Indium Coverage on wafer % | Process types | Current production values - Amount of Indium in wastewater post filtration (grams/day) | Current production values - Amount of Gallium in wastewater (grams/day) | Filter Efficiency | Site outfall flow rate (gpm) |
|---|---|---|---|---|---|
| 20% | Wafer Grind | 65.2 | none | 35% | 1,270 |
| | Wet and Dry Etch | 5.1 | 0.011 | NA at this time | |

**Modeling based on amount of Indium and Gallium removed during the process vs wafer starts due to potential changes in Indium coverage and Filter Efficiency**

| | | |
|---|---|---|
| **Total Indium (Outfall)** | **0.010** | **mg/L** |
| **Total Gallium (Outfall)** | **0.0016** | **ug/L** |



**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.

**Pollution Prevention through Source Reduction and Waste Minimization Statement**

July 2015 – December 2015

Water Use Reduction Projects:

The Intel NM site eliminated the need to divert the Ultra-Pure Water (UPW) Reclaim skid from UPW Return to Reuse Water. This was done by rinsing the new UPW Filter Modules to quality on the UPW Filter Rinse Skid and not finishing the high flow rinse on the UPW online Skid. The amount of wastewater savings realized by not diverting UPW Filter Reclaim effluent from UPWR to URW is 15,966,720 gallons per 6 year Filter Replacement PM.

The site continues to look into routing additional ammonia wastewater streams to the Trimix Treatment System to further reduce ammonia effluent flows. This would also potentially help reduce fluoride flows as well.

NM Site Recycling Rate:

The Intel NM site had a chemical waste recycling rate of 99.3% for H2 2015, and an overall 2015 chemical recycling value of 99.5%.

## Attachment(s):

Semi-Annual Reports:

Test America Laboratories, Inc. Analytical Report, Job ID: 280-76970-1 Semi Annual Waste Water.

Test America Laboratories, Inc. Analytical Report, Job ID: 280-77995-1 Semi Annual Waste Water.*
*Repeated samples to complete Gallium sampling of 4 consecutive day 24-hr composites per Endorsement INGA

Monthly Authority Split Sampling Reports:

**Jul:** Test America Laboratories, Inc. Analytical Report, Job ID: 280-71758-1 Monthly WUA Split Sampling.

**Aug:** Test America Laboratories, Inc. Analytical Report, Job ID: 280-72900-1 Monthly WUA Split Sampling.

**Sept:** Test America Laboratories, Inc. Analytical Report, Job ID: 280-73886-1 Monthly WUA Split Sampling.

**Oct 1st day**:** Test America Laboratories, Inc. Analytical Report, Job ID: 280-74909-1 Monthly WUA Split Sampling.

**Oct 2nd day**:** Test America Laboratories, Inc. Analytical Report, Job ID: 280-74946-1 Monthly WUA Split Sampling.

**Nov:** Test America Laboratories, Inc. Analytical Report, Job ID: 280-76537-1 Monthly WUA Split Sampling.

**Dec:** Test America Laboratories, Inc. Analytical Report, Job ID: 280-77567-1 Monthly WUA Split Sampling.
**2 sample reports for October following ABCWUA 2-day sampling event.

Intel NM grease trap pumping manifests (1 per month) – H2 2015

Toxic Organic Management Plan (TOMP) – 2016 Revision

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

# ANALYTICAL REPORT

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

TestAmerica Job ID: 280-76970-1
Client Project/Site: Semi Annual Waste Water

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

Attn: Jeff Rudnik

*Authorized for release by:*
*12/4/2015 12:40:24 PM*

DiLea Bindel, Project Manager I
(303)736-0173
dilea.bindel@testamericainc.com

# Table of Contents

## Job ID: 280-76970-1

### Laboratory: TestAmerica Denver

**Narrative**

# CASE NARRATIVE
# Client: Intel Corporation
# Project: Semi Annual Waste Water
# Report Number: 280-76970-1

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 11/18/2015; the samples arrived in good condition, properly preserved and on ice. The temperature of the cooler at receipt was 1.3" C.

The sample presented in this report was analyzed for Gallium by method 6010B and Ethylene Glycol by method 8015C, per the updated project scope. It can be noted, the updated project scope includes method 8270C NMP, but the laboratory did not receive unpreserved volume. The client indicated, the volume for this analysis will be re-collected at a later date.

TestAmerica Denver subcontracted the requested 6010B Gallium analysis to TestAmerica Phoenix located at 4625 East Cotton Ctr Blvd, Suite 189, Phoenix, AZ 85040.

**GLYCOLS - METHOD 8015C**

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

**METALS (ICP) - METHOD 6010B**

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

## 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, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC | Decision level concentration |
| MDA | Minimum detectable activity |
| EDL | Estimated Detection Limit |
| MDC | Minimum detectable concentration |
| MDL | Method Detection Limit |
| ML | Minimum Level (Dioxin) |
| 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 |
| 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

TestAmerica Job ID: 280-76970-1

**Client Sample ID: SV-01- SV-11** **Lab Sample ID: 280-76970-12**

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Denver

# Method Summary

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

TestAmerica Job ID: 280-76970-1

| Method | Method Description | Protocol | Laboratory |
|---|---|---|---|
| 8015C | Glycols- Direct Injection (GC/FID) | SW846 | TAL DEN |
| 6010B | Metals (ICP) | SW846 | TAL PHX |

**Protocol References:**

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

**Laboratory References:**

TAL DEN = TestAmerica Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

TAL PHX = TestAmerica Phoenix, 4625 East Cotton Ctr Blvd, Suite 189, Phoenix, AZ 85040, TEL (602)437-3340

# Sample Summary

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

TestAmerica Job ID: 280-76970-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---|---|---|---|---|
| 280-76970-12 | SV-01- SV-11 | Water | 11/17/15 09:00 | 11/18/15 10:00 |

# Client Sample Results

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

TestAmerica Job ID: 280-76970-1

## Method: 8015C - Glycols- Direct Injection (GC/FID)

**Client Sample ID: SV-01- SV-11**
**Date Collected: 11/17/15 09:00**
**Date Received: 11/18/15 10:00**

**Lab Sample ID: 280-76970-12**
**Matrix: Water**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Ethylene glycol | ND | | 10 | | mg/L | | | 11/27/15 15:40 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,4-Butanediol* | *94* | | *77 - 134* | | *11/27/15 15:40* | *1* |

## Method: 6010B - Metals (ICP)

**Client Sample ID: SV-01- SV-11**
**Date Collected: 11/17/15 09:00**
**Date Received: 11/18/15 10:00**

**Lab Sample ID: 280-76970-12**
**Matrix: Water**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gallium | ND | | 0.10 | | mg/L | | 11/27/15 16:13 | 11/30/15 12:53 | 1 |

## Method: 8015C - Glycols- Direct Injection (GC/FID)

**Lab Sample ID: MB 280-305737/18**
**Matrix: Water**
**Analysis Batch: 305737**

**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 | | 10 | | mg/L | | | 11/27/15 11:53 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,4-Butanediol* | *100* | | *77 - 134* | | *11/27/15 11:53* | *1* |

**Lab Sample ID: LCS 280-305737/21**
**Matrix: Water**
**Analysis Batch: 305737**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Ethylene glycol | | | 50.0 | 48.1 | | mg/L | | 96 | 75 - 120 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *1,4-Butanediol* | *104* | | *77 - 134* |

**Lab Sample ID: LCSD 280-305737/24**
**Matrix: Water**
**Analysis Batch: 305737**

**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 | | | 50.0 | 52.3 | | mg/L | | 105 | 75 - 120 | 8 | 20 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *1,4-Butanediol* | *103* | | *77 - 134* |

**Lab Sample ID: 280-76970-12 MS**
**Matrix: Water**
**Analysis Batch: 305737**

**Client Sample ID: SV-01- SV-11**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Ethylene glycol | ND | | 50.0 | 54.7 | | mg/L | | 109 | 75 - 120 | | |

| *Surrogate* | *MS %Recovery* | *MS Qualifier* | *Limits* |
|---|---|---|---|
| *1,4-Butanediol* | *97* | | *77 - 134* |

**Lab Sample ID: 280-76970-12 MSD**
**Matrix: Water**
**Analysis Batch: 305737**

**Client Sample ID: SV-01- SV-11**
**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 | ND | | 50.0 | 57.4 | | mg/L | | 115 | 75 - 120 | 5 | 20 |

| *Surrogate* | *MSD %Recovery* | *MSD Qualifier* | *Limits* |
|---|---|---|---|
| *1,4-Butanediol* | *100* | | *77 - 134* |

## Method: 6010B - Metals (ICP)

**Lab Sample ID: MB 550-78870/1-A**
**Matrix: Water**
**Analysis Batch: 78958**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 78870**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gallium | ND | | 0.10 | | mg/L | | 11/27/15 16:13 | 11/30/15 12:41 | 1 |

**Lab Sample ID: LCS 550-78870/2-A**
**Matrix: Water**
**Analysis Batch: 78958**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 78870**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gallium | | | 1.00 | 1.02 | | mg/L | | 102 | 90 - 110 | | |

**Lab Sample ID: LCSD 550-78870/3-A**
**Matrix: Water**
**Analysis Batch: 78958**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 78870**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gallium | | | 1.00 | 1.02 | | mg/L | | 102 | 90 - 110 | 0 | 20 |

**Lab Sample ID: 280-76970-12 MS**
**Matrix: Water**
**Analysis Batch: 78958**

**Client Sample ID: SV-01- SV-11**
**Prep Type: Total/NA**
**Prep Batch: 78870**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gallium | ND | | 1.00 | 1.07 | | mg/L | | 107 | 75 - 125 | | |

**Lab Sample ID: 280-76970-12 MSD**
**Matrix: Water**
**Analysis Batch: 78958**

**Client Sample ID: SV-01- SV-11**
**Prep Type: Total/NA**
**Prep Batch: 78870**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gallium | ND | | 1.00 | 1.02 | | mg/L | | 102 | 75 - 125 | 6 | 20 |

# QC Association Summary

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

TestAmerica Job ID: 280-76970-1

## GC VOA

### Analysis Batch: 305737

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 280-76970-12 | SV-01- SV-11 | Total/NA | Water | 8015C | |
| 280-76970-12 MS | SV-01- SV-11 | Total/NA | Water | 8015C | |
| 280-76970-12 MSD | SV-01- SV-11 | Total/NA | Water | 8015C | |
| LCS 280-305737/21 | Lab Control Sample | Total/NA | Water | 8015C | |
| LCSD 280-305737/24 | Lab Control Sample Dup | Total/NA | Water | 8015C | |
| MB 280-305737/18 | Method Blank | Total/NA | Water | 8015C | |

## Metals

### Prep Batch: 78870

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 280-76970-12 | SV-01- SV-11 | Total/NA | Water | 3005A | |
| 280-76970-12 MS | SV-01- SV-11 | Total/NA | Water | 3005A | |
| 280-76970-12 MSD | SV-01- SV-11 | Total/NA | Water | 3005A | |
| LCS 550-78870/2-A | Lab Control Sample | Total/NA | Water | 3005A | |
| LCSD 550-78870/3-A | Lab Control Sample Dup | Total/NA | Water | 3005A | |
| MB 550-78870/1-A | Method Blank | Total/NA | Water | 3005A | |

### Analysis Batch: 78958

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 280-76970-12 | SV-01- SV-11 | Total/NA | Water | 6010B | 78870 |
| 280-76970-12 MS | SV-01- SV-11 | Total/NA | Water | 6010B | 78870 |
| 280-76970-12 MSD | SV-01- SV-11 | Total/NA | Water | 6010B | 78870 |
| LCS 550-78870/2-A | Lab Control Sample | Total/NA | Water | 6010B | 78870 |
| LCSD 550-78870/3-A | Lab Control Sample Dup | Total/NA | Water | 6010B | 78870 |
| MB 550-78870/1-A | Method Blank | Total/NA | Water | 6010B | 78870 |

# Lab Chronicle

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

TestAmerica Job ID: 280-76970-1

## Client Sample ID: SV-01- SV-11

**Date Collected: 11/17/15 09:00**
**Date Received: 11/18/15 10:00**

## Lab Sample ID: 280-76970-12

**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8015C | | 1 | 1 mL | 1 mL | 305737 | 11/27/15 15:40 | AMP | TAL DEN |
| Total/NA | Prep | 3005A | | | 50 mL | 50 mL | 78870 | 11/27/15 16:13 | AJC | TAL PHX |
| Total/NA | Analysis | 6010B | | 1 | 50 mL | 50 mL | 78958 | 11/30/15 12:53 | AJC | TAL PHX |

**Laboratory References:**

TAL DEN = TestAmerica Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

TAL PHX = TestAmerica Phoenix, 4625 East Cotton Ctr Blvd, Suite 189, Phoenix, AZ 85040, TEL (602)437-3340

# Login Sample Receipt Checklist

Client: Intel Corporation

Job Number: 280-76970-1

**Login Number: 76970**
**List Number: 1**
**Creator: White, Denise E**

**List Source: TestAmerica Denver**

| Question | Answer | Comment |
|---|---|---|
| Radioactivity wasn't checked or is </= 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. | False | Trip Blanks not designated for specific analyses; COC page 2/2 not relinquished |
| Is the Field Sampler's name present on COC? | False | blank |
| There are no discrepancies between the containers received and the COC. | True | |
| Samples are received within Holding Time. | 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 <6mm (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: 280-76970-1

**Login Number: 76970**
**List Number: 2**
**Creator: Gravlin, Andrea**

**List Source: TestAmerica Phoenix**
**List Creation: 11/19/15 10:05 AM**

| Question | Answer | Comment |
|---|---|---|
| Radioactivity wasn't checked or is </= 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? | False | Received project as a subcontract. |
| There are no discrepancies between the containers received and the COC. | True | |
| Samples are received within Holding Time. | 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 <6mm (1/4"). | True | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | Check done at department level as required. |

**TestAmerica Denver**
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Fax (303) 431-7171

# Chain of Cu

280-76970 Chain of Custody

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

| | | | |
|---|---|---|---|
| **Client Information** | Sampler: | Lab PM: Bindel, DiLea | COC No: 280-23927-10503.1 |
| Client Contact: Jeff Rudnik | Phone: | E-Mail: dilea.bindel@testamericainc.com | Page: Page 1 of 1 1 of 2 |
| Company: Intel Corporation | | | Job #: |
| Address: 4100 Sara Road Mail Stop RR5-491 | Due Date Requested: | | |
| City: Rio Rancho | TAT Requested (days): | | |
| State, Zip: NM, 87124 | | | |
| Phone: 505-353-6943 (Tel) | PO #: | | |
| Email: jeffrey.rudnik@intel.com | WO #: | | |
| Project Name: Semi Annual Waste Water | Project #: 28003759 | | |
| Site: | SSOW#: | | |

**Analysis Requested**

Preservation Codes:

| | |
|---|---|
| A - HCL | M - Hexane |
| B - NaOH | N - None |
| C - Zn Acetate | O - AsNaO2 |
| D - Nitric Acid | P - Na2O4S |
| E - NaHSO4 | Q - Na2SO3 |
| F - MeOH | R - Na2S2SO3 |
| G - Amchlor | S - H2SO4 |
| H - Ascorbic Acid | T - TSP Dodecahydrate |
| I - Ice | U - Acetone |
| J - DI Water | V - MCAA |
| K - EDTA | W - ph 4-5 |
| L - EDA | Z - other (specify) |

Other:

Special Instructions/Note:
6010B: Gallium (sub to PHX)
6010B: As,Cu,Pb,Mo,Ag
6020: Ni
Nitrate/BOD - 48 Hour HT

| Sample Identification | Sample Date | Sample Time | Sample Type (C=comp, G=grab) | Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air) | Field Filtered Sample (Yes or No) | Perform MS/MSD (Yes or No) | 8015C_DAI - Ethylene Glycol | 8270C - 1-Methyl-2-pyrrolidone (NMP) (Sub - Canton) | SM5210B_BODCalc - BOD (48 hr hold time!) | 1664A_Calc - SGT-HEM & HEM (Oil & Grease) | 2540D - Total Suspended Solids | 300.0_48HR_Nitrate (48 hr hold time!) | 300.0_28D_Fluoride | 2540C_Calcd_TDS | 350.1_Ammonia / 410.4_COD | 365.1_Total Phos and PO4 as P | 6010B_Total Metals (AgAsCuMoPb) | 6020_Total Nickel only | 6010B - Gallium (Sub to PHX) | Total Number of containers | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Preservation Code: | | | | N | N | N | S | N | N | N | N | S | S | D | D | D | | |
| SV-01 | 11/17/15 | 0900 | C | W | | | | | | | X | | | | | | | | | | |
| SV-02 | 11/17/15 | 0900 | C | W | | | | | X | | | | | | | | | | | | |
| SV-03 | 11-17-15 | 0900 | C | W | | | | | | | | | | | X | | | | | | Ammonia |
| SV-04 | 11-17-15 | 0900 | C | W | | | | | | X | | | | | | | | | | | |
| SV-05 | 11-17-15 | 0900 | C | W | | | | | | X | | | | | | | | | | | |
| SV-06 | 11-17-15 | 0900 | C | W | | | X | | | | | | | | | | | | | | |
| SV-07 | 11-17-15 | 0900 | C | W | | | | | | | | X | X | X | | | | | | | |
| SV-08 | 11-17-15 | 0900 | C | W | | | | | | | | | | | X | X | | | | | COD |
| SV-09 | 11-17-15 | 0900 | C | W | | | | | | | | | | | | | X | X | | | |
| SV-10 | 11-17-15 | 0900 | C | W | | | | X | | | | | | | | | | | | | |
| TRIP BLANK | 11-17-15 | 0900 | C | W | | | | | | | | | | | | | | | | | |

*Possible Hazard Identification*
☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

*Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)*
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Empty Kit Relinquished by: | | Date: | | Time: | | Method of Shipment: | |
| Relinquished by: K Urban | Date/Time: 11-17-15 1230 | Company: Intel | Received by: | | Date/Time: 11/18/15 1000 | Company: DAD | |
| Relinquished by: | Date/Time: | Company | Received by: | | Date/Time: | Company | |
| Relinquished by: | Date/Time: | Company | Received by: | | Date/Time: | Company | |

Custody Seals Intact: Δ Yes Δ No
Custody Seal No.: 546799 + 546800
Cooler Temperature(s) °C and Other Remarks: 1.2+0.1 IR#5 RW 11/18/15

**TestAmerica Denver**
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Fax (303) 431-7171

# Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

| Client Information | Sampler: | Lab PM: Bindel, DiLea | Carrier Tracking No(s): | COC No: 280-23927-10503.1 |
|---|---|---|---|---|
| Client Contact: Jeff Rudnik | Phone: | E-Mail: dilea.bindel@testamericainc.com | | Page: Page 1 of 1 2 of 2 |
| Company: Intel Corporation | | | | Job #: |

| Address: 4100 Sara Road Mail Stop RR5-491 | Due Date Requested: |
|---|---|
| City: Rio Rancho | TAT Requested (days): |
| State, Zip: NM, 87124 | |
| Phone: 505-353-6943 (Tel) | PO #: |
| Email: jeffrey.rudnik@intel.com | WO #: |
| Project Name: Semi Annual Waste Water | Project #: 28003759 |
| Site: | SSOW#: |

**Analysis Requested**

| Sample Identification | Sample Date | Sample Time | Sample Type (C=Comp, G=grab) | Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air) | Field Filtered Sample (Yes or No) | Perform MS/MSD (Yes or No) | 8015C_DAI - Ethylene Glycol | 8270C - 1-Methyl-2-pyrrolidone (NMP) (Sub - Canton) | SM5210B_BODCalc - BOD (48 hr hold time!) | 1664A_Calc - SGT-HEM & HEM (Oil & Grease) | 2540D - Total Suspended Solids | 300.0_48HR_Nitrate (48 hr hold time!) | 300.0_28D_Fluoride | 2540C_Calcd_TDS | 350.1_Ammonia / 410.4_COD | 365.1_Total Phos and PO4 as P | 6010B_Total Metals (AgAsCuMoPb) | 6020_Total Nickel only | 6010B - Gallium (Sub to PHX) | Total Number of containers |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Preservation Code: | | | | N | N | N | S | N | N | N | N | S | S | D | D | D | |
| SV-01 SV-11 | 11/17/15 | 0900 | C | W | | | | | | | | | | | | | | | X | |
| SV-02 | | | | | | | | | | | | | | | | | | | | |
| SV-03 | | | | | | | | | | | | | | | | | | | | |
| SV-04 | | | | | | | | | | | | | | | | | | | | |
| SV-05 | | | | | | | | | | | | | | | | | | | | |
| SV-06 | | | | | | | | | | | | | | | | | | | | |
| SV-07 | | | | | | | | | | | | | | | | | | | | |
| SV-08 | | | | | | | | | | | | | | | | | | | | |
| SV-09 | | | | | | | | | | | | | | | | | | | | |
| SV-10 | | | | | | | | | | | | | | | | | | | | |
| TRIP BLANK | | | | | | | | | | | | | | | | | | | | |

**Preservation Codes:**

| | |
|---|---|
| A - HCL | M - Hexane |
| B - NaOH | N - None |
| C - Zn Acetate | O - AsNaO2 |
| D - Nitric Acid | P - Na2O4S |
| E - NaHSO4 | Q - Na2SO3 |
| F - MeOH | R - Na2S2SO3 |
| G - Amchlor | S - H2SO4 |
| H - Ascorbic Acid | T - TSP Dodecahydrate |
| I - Ice | U - Acetone |
| J - DI Water | V - MCAA |
| K - EDTA | W - ph 4-5 |
| L - EDA | Z - other (specify) |

Other:

**Special Instructions/Note:**
**6010B: Gallium (sub to PHX)**
**6010B: As,Cu,Pb,Mo,Ag**
**6020: Ni**
**Nitrate/BOD - 48 Hour HT**

***Possible Hazard Identification***
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

***Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)***
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

| Empty Kit Relinquished by: | Date: | Time: | Method of Shipment: |
|---|---|---|---|

| Relinquished by: | Date/Time: | Company | Received by: | Date/Time: 11/18/15 1000 | Company TAD |
|---|---|---|---|---|---|
| Relinquished by: | Date/Time: | Company | Received by: | Date/Time: | Company |
| Relinquished by: | Date/Time: | Company | Received by: | Date/Time: | Company |

Custody Seals Intact: △ Yes △ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:



12/4/2015

**TestAmerica Denver**
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Fax (303) 431-7171

# Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

12/4/2015

| Client Information (Sub Contract Lab) | Sampler: | Lab PM: Bindel, DiLea R | Carrier Tracking No(s): | COC No: 280-330212.1 |
|---|---|---|---|---|
| Client Contact: Shipping/Receiving | Phone: | E-Mail: dilea.bindel@testamericainc.com | | Page: Page 1 of 1 |
| Company: TestAmerica Laboratories, Inc | | Analysis Requested | | Job #: 280-76970-1 |
| Address: 4625 East Cotton Ctr Blvd, Suite 189, | Due Date Requested: 11/27/2015 | | | Preservation Codes: |
| City: Phoenix | TAT Requested (days): Standard TAT | | | A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify) |
| State, Zip: AZ, 85040 | | | | |
| Phone: 602-437-3340(Tel) 602-454-9303(Fax) | PO #: | | | Other: |
| Email: | WO #: | | | |
| Project Name: Semi Annual Waste Water | Project #: 28003759 | | | |
| Site: New Mexico | SSOW#: | | | |

| Sample Identification - Client ID (Lab ID) | Sample Date | Sample Time | Sample Type (C=comp, G=grab) | Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air) | Field Filtered Sample (Yes or No) | Perform MS/MSD (Yes or No) | 6010B/3005A_Total Metals (Gallium only) ICP | Total Number of containers | Special Instructions/Note: |
|---|---|---|---|---|---|---|---|---|---|
| | | | Preservation Code: | | | | D | | |
| SV-01- SV-11 (280-76970-12) | 11/17/15 | 09:00 Mountain | | Water | | | X | 1 | (500mL HN03) poly) |

***Possible Hazard Identification***
*Unconfirmed*

***Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)***
☐ *Return To Client* ☒ *Disposal By Lab* ☐ *Archive For _____ Months*

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

| Empty Kit Relinquished by: | Date: | Time: | Method of Shipment: |
|---|---|---|---|

| Relinquished by: | Date/Time: | Company | Received by: | Date/Time: | Company |
|---|---|---|---|---|---|
| | 11/18/15 0500 | TAD | | | |
| Relinquished by: | Date/Time: | Company | Received by: | Date/Time: | Company |
| Relinquished by: | Date/Time: | Company | Received by: | Date/Time: 11-19-15 0930 | Company TAL Pitt |

| Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: |
|---|---|---|

14-8-C

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

# ANALYTICAL REPORT

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

TestAmerica Job ID: 280-77995-1

Client Project/Site: Semi Annual Waste Water - NMP Resampling

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

Attn: Jeff Rudnik

*Authorized for release by:*
*12/29/2015 4:08:34 PM*

DiLea Bindel, Project Manager I
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# Table of Contents

## Job ID: 280-77995-1

**Laboratory: TestAmerica Denver**

**Narrative**

# CASE NARRATIVE
# Client: Intel Corporation
# Project: Semi Annual Waste Water - NMP Resampling
# Report Number: 280-77995-1

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 12/12/2015; the samples arrived in good condition, properly preserved and on ice. The temperature of the cooler at receipt was 2.6° C.

The 8270C 1-Methyl-2-pyrrilidionone (NMP) analysis was performed by TestAmerica Canton located at 4101 Shuffel Street NW, North Canton, OH 44720.

The 6010B Total Gallium analysis was performed by TestAmerica Phoenix located at 4625 East Cotton Center Boulevard, Suite 189, Phoenix, AZ 85040.

**SEMIVOLATILE ORGANIC COMPOUNDS (GC-MS) - 8270C**

Sample NMP-01 (280-77995-5) was diluted to bring target compounds within the calibration range of the instrument. Associated results in the analytical report have been flagged with an “E”, as these are estimated values. The sample was also analyzed undiluted or at a lesser dilution in order to achieve the lowest possible reporting limits for each analyte. Reporting limits have been adjusted relative to the dilution required.

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with prep batch 240-211268. The acceptable LCS analyte recoveries provide evidence that the laboratory is performing the method within acceptable guidelines.

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

**METALS (ICP) - METHOD 6010B**

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

## Qualifiers

### GC/MS Semi VOA

| Qualifier | Qualifier Description |
|---|---|
| E | Result exceeded calibration range. |

## 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, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC | Decision level concentration |
| MDA | Minimum detectable activity |
| EDL | Estimated Detection Limit |
| MDC | Minimum detectable concentration |
| MDL | Method Detection Limit |
| ML | Minimum Level (Dioxin) |
| 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 |
| 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 - NMP Resampling

TestAmerica Job ID: 280-77995-1

## Client Sample ID: GA-01 — Lab Sample ID: 280-77995-1

No Detections.

## Client Sample ID: GA-02 — Lab Sample ID: 280-77995-2

No Detections.

## Client Sample ID: GA-03 — Lab Sample ID: 280-77995-3

No Detections.

## Client Sample ID: GA-04 — Lab Sample ID: 280-77995-4

No Detections.

## Client Sample ID: NMP-01 — Lab Sample ID: 280-77995-5

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| 1-Methyl-2-pyrrilidinone | 240 | E | 48 | | ug/L | 5 | | 8270C | Total/NA |
| 1-Methyl-2-pyrrilidinone - RA | 270 | | 96 | | ug/L | 10 | | 8270C | Total/NA |

This Detection Summary does not include radiochemical test results.

# Method Summary

Client: Intel Corporation
Project/Site: Semi Annual Waste Water - NMP Resampling

TestAmerica Job ID: 280-77995-1

| Method | Method Description | Protocol | Laboratory |
|---|---|---|---|
| 8270C | Semivolatile Organic Compounds (GC/MS) | SW846 | TAL CAN |
| 6010B | Metals (ICP) | SW846 | TAL PHX |

**Protocol References:**

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

**Laboratory References:**

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

TAL PHX = TestAmerica Phoenix, 4625 East Cotton Ctr Blvd, Suite 189, Phoenix, AZ 85040, TEL (602)437-3340

# Sample Summary

Client: Intel Corporation
Project/Site: Semi Annual Waste Water - NMP Resampling

TestAmerica Job ID: 280-77995-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---|---|---|---|---|
| 280-77995-1 | GA-01 | Water | 12/07/15 10:00 | 12/12/15 08:40 |
| 280-77995-2 | GA-02 | Water | 12/08/15 10:00 | 12/12/15 08:40 |
| 280-77995-3 | GA-03 | Water | 12/09/15 10:00 | 12/12/15 08:40 |
| 280-77995-4 | GA-04 | Water | 12/10/15 10:00 | 12/12/15 08:40 |
| 280-77995-5 | NMP-01 | Water | 12/10/15 10:00 | 12/12/15 08:40 |

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

**Client Sample ID: NMP-01**
**Date Collected: 12/10/15 10:00**
**Date Received: 12/12/15 08:40**

**Lab Sample ID: 280-77995-5**
**Matrix: Water**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1-Methyl-2-pyrrilidinone | 240 | E | 48 | | ug/L | | 12/17/15 09:00 | 12/21/15 19:22 | 5 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *2-Fluorobiphenyl (Surr)* | *61* | | *29 - 110* | *12/17/15 09:00* | *12/21/15 19:22* | *5* |
| *2-Fluorophenol (Surr)* | *22* | | *15 - 110* | *12/17/15 09:00* | *12/21/15 19:22* | *5* |
| *2,4,6-Tribromophenol (Surr)* | *57* | | *21 - 128* | *12/17/15 09:00* | *12/21/15 19:22* | *5* |
| *Nitrobenzene-d5 (Surr)* | *57* | | *31 - 110* | *12/17/15 09:00* | *12/21/15 19:22* | *5* |
| *Phenol-d5 (Surr)* | *15* | | *10 - 110* | *12/17/15 09:00* | *12/21/15 19:22* | *5* |
| *Terphenyl-d14 (Surr)* | *47* | | *31 - 115* | *12/17/15 09:00* | *12/21/15 19:22* | *5* |

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

**Client Sample ID: NMP-01**
**Date Collected: 12/10/15 10:00**
**Date Received: 12/12/15 08:40**

**Lab Sample ID: 280-77995-5**
**Matrix: Water**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1-Methyl-2-pyrrilidinone | 270 | | 96 | | ug/L | | 12/17/15 09:00 | 12/22/15 17:53 | 10 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *2-Fluorobiphenyl (Surr)* | *65* | | *29 - 110* | *12/17/15 09:00* | *12/22/15 17:53* | *10* |
| *2-Fluorophenol (Surr)* | *27* | | *15 - 110* | *12/17/15 09:00* | *12/22/15 17:53* | *10* |
| *2,4,6-Tribromophenol (Surr)* | *65* | | *21 - 128* | *12/17/15 09:00* | *12/22/15 17:53* | *10* |
| *Nitrobenzene-d5 (Surr)* | *61* | | *31 - 110* | *12/17/15 09:00* | *12/22/15 17:53* | *10* |
| *Phenol-d5 (Surr)* | *17* | | *10 - 110* | *12/17/15 09:00* | *12/22/15 17:53* | *10* |
| *Terphenyl-d14 (Surr)* | *54* | | *31 - 115* | *12/17/15 09:00* | *12/22/15 17:53* | *10* |

## Method: 6010B - Metals (ICP)

**Client Sample ID: GA-01**
**Date Collected: 12/07/15 10:00**
**Date Received: 12/12/15 08:40**

**Lab Sample ID: 280-77995-1**
**Matrix: Water**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gallium | ND | | 0.10 | | mg/L | | 12/19/15 07:46 | 12/21/15 19:00 | 1 |

**Client Sample ID: GA-02**
**Date Collected: 12/08/15 10:00**
**Date Received: 12/12/15 08:40**

**Lab Sample ID: 280-77995-2**
**Matrix: Water**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gallium | ND | | 0.10 | | mg/L | | 12/19/15 07:46 | 12/21/15 19:02 | 1 |

**Client Sample ID: GA-03**
**Date Collected: 12/09/15 10:00**
**Date Received: 12/12/15 08:40**

**Lab Sample ID: 280-77995-3**
**Matrix: Water**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gallium | ND | | 0.10 | | mg/L | | 12/19/15 07:46 | 12/21/15 19:04 | 1 |

**Client Sample ID: GA-04**
**Date Collected: 12/10/15 10:00**
**Date Received: 12/12/15 08:40**

**Lab Sample ID: 280-77995-4**
**Matrix: Water**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gallium | ND | | 0.10 | | mg/L | | 12/19/15 07:46 | 12/21/15 19:06 | 1 |

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

**Lab Sample ID: MB 240-211268/9-A**
**Matrix: Water**
**Analysis Batch: 211747**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 211268**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1-Methyl-2-pyrrilidinone | ND | | 10 | | ug/L | | 12/17/15 09:00 | 12/21/15 11:53 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *2-Fluorobiphenyl (Surr)* | *73* | | *29 - 110* | *12/17/15 09:00* | *12/21/15 11:53* | *1* |
| *2-Fluorophenol (Surr)* | *70* | | *15 - 110* | *12/17/15 09:00* | *12/21/15 11:53* | *1* |
| *2,4,6-Tribromophenol (Surr)* | *78* | | *21 - 128* | *12/17/15 09:00* | *12/21/15 11:53* | *1* |
| *Nitrobenzene-d5 (Surr)* | *77* | | *31 - 110* | *12/17/15 09:00* | *12/21/15 11:53* | *1* |
| *Phenol-d5 (Surr)* | *52* | | *10 - 110* | *12/17/15 09:00* | *12/21/15 11:53* | *1* |
| *Terphenyl-d14 (Surr)* | *84* | | *31 - 115* | *12/17/15 09:00* | *12/21/15 11:53* | *1* |

**Lab Sample ID: LCS 240-211268/10-A**
**Matrix: Water**
**Analysis Batch: 211747**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 211268**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| 2-Chloronaphthalene | 20.0 | 15.6 | | ug/L | | 78 | 47 - 120 |
| 2-Chlorophenol | 20.0 | 17.1 | | ug/L | | 85 | 43 - 120 |
| 2,4-Dichlorophenol | 20.0 | 16.9 | | ug/L | | 84 | 46 - 120 |
| 2,4-Dimethylphenol | 20.0 | 16.2 | | ug/L | | 81 | 38 - 120 |
| 2,4-Dinitrophenol | 40.0 | 27.6 | | ug/L | | 69 | 10 - 120 |
| 2,4-Dinitrotoluene | 20.0 | 18.4 | | ug/L | | 92 | 52 - 120 |
| 2-Nitrophenol | 20.0 | 18.5 | | ug/L | | 92 | 42 - 120 |
| 1,2,4-Trichlorobenzene | 20.0 | 15.5 | | ug/L | | 78 | 49 - 110 |
| 2,4,6-Trichlorophenol | 20.0 | 17.6 | | ug/L | | 88 | 43 - 120 |
| 2,6-Dinitrotoluene | 20.0 | 16.7 | | ug/L | | 83 | 52 - 120 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *2-Fluorobiphenyl (Surr)* | *79* | | *29 - 110* |
| *2-Fluorophenol (Surr)* | *74* | | *15 - 110* |
| *2,4,6-Tribromophenol (Surr)* | *98* | | *21 - 128* |
| *Nitrobenzene-d5 (Surr)* | *108* | | *31 - 110* |
| *Phenol-d5 (Surr)* | *60* | | *10 - 110* |
| *Terphenyl-d14 (Surr)* | *88* | | *31 - 115* |

## Method: 6010B - Metals (ICP)

**Lab Sample ID: MB 550-80332/1-A**
**Matrix: Water**
**Analysis Batch: 80459**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 80332**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gallium | ND | | 0.10 | | mg/L | | 12/19/15 07:46 | 12/21/15 18:43 | 1 |

## Method: 6010B - Metals (ICP) (Continued)

**Lab Sample ID: LCS 550-80332/2-A**
**Matrix: Water**
**Analysis Batch: 80459**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 80332**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gallium | | | 1.00 | 0.934 | | mg/L | | 93 | 90 - 110 | | |

**Lab Sample ID: LCSD 550-80332/3-A**
**Matrix: Water**
**Analysis Batch: 80459**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 80332**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gallium | | | 1.00 | 0.939 | | mg/L | | 94 | 90 - 110 | 1 | 20 |

**Lab Sample ID: 550-56032-A-1-A MS**
**Matrix: Water**
**Analysis Batch: 80459**

**Client Sample ID: Matrix Spike**
**Prep Type: Total/NA**
**Prep Batch: 80332**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gallium | ND | | 1.00 | 0.922 | | mg/L | | 92 | 75 - 125 | | |

**Lab Sample ID: 550-56032-A-1-B MSD**
**Matrix: Water**
**Analysis Batch: 80459**

**Client Sample ID: Matrix Spike Duplicate**
**Prep Type: Total/NA**
**Prep Batch: 80332**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gallium | ND | | 1.00 | 0.912 | | mg/L | | 91 | 75 - 125 | 1 | 20 |

# QC Association Summary

Client: Intel Corporation
Project/Site: Semi Annual Waste Water - NMP Resampling

TestAmerica Job ID: 280-77995-1

## GC/MS Semi VOA

### Prep Batch: 211268

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 280-77995-5 - RA | NMP-01 | Total/NA | Water | 3510C | |
| 280-77995-5 | NMP-01 | Total/NA | Water | 3510C | |
| LCS 240-211268/10-A | Lab Control Sample | Total/NA | Water | 3510C | |
| MB 240-211268/9-A | Method Blank | Total/NA | Water | 3510C | |

### Analysis Batch: 211747

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 280-77995-5 | NMP-01 | Total/NA | Water | 8270C | 211268 |
| LCS 240-211268/10-A | Lab Control Sample | Total/NA | Water | 8270C | 211268 |
| MB 240-211268/9-A | Method Blank | Total/NA | Water | 8270C | 211268 |

### Analysis Batch: 211901

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 280-77995-5 - RA | NMP-01 | Total/NA | Water | 8270C | 211268 |

## Metals

### Prep Batch: 80332

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 280-77995-1 | GA-01 | Total/NA | Water | 3005A | |
| 280-77995-2 | GA-02 | Total/NA | Water | 3005A | |
| 280-77995-3 | GA-03 | Total/NA | Water | 3005A | |
| 280-77995-4 | GA-04 | Total/NA | Water | 3005A | |
| 550-56032-A-1-A MS | Matrix Spike | Total/NA | Water | 3005A | |
| 550-56032-A-1-B MSD | Matrix Spike Duplicate | Total/NA | Water | 3005A | |
| LCS 550-80332/2-A | Lab Control Sample | Total/NA | Water | 3005A | |
| LCSD 550-80332/3-A | Lab Control Sample Dup | Total/NA | Water | 3005A | |
| MB 550-80332/1-A | Method Blank | Total/NA | Water | 3005A | |

### Analysis Batch: 80459

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 280-77995-1 | GA-01 | Total/NA | Water | 6010B | 80332 |
| 280-77995-2 | GA-02 | Total/NA | Water | 6010B | 80332 |
| 280-77995-3 | GA-03 | Total/NA | Water | 6010B | 80332 |
| 280-77995-4 | GA-04 | Total/NA | Water | 6010B | 80332 |
| 550-56032-A-1-A MS | Matrix Spike | Total/NA | Water | 6010B | 80332 |
| 550-56032-A-1-B MSD | Matrix Spike Duplicate | Total/NA | Water | 6010B | 80332 |
| LCS 550-80332/2-A | Lab Control Sample | Total/NA | Water | 6010B | 80332 |
| LCSD 550-80332/3-A | Lab Control Sample Dup | Total/NA | Water | 6010B | 80332 |
| MB 550-80332/1-A | Method Blank | Total/NA | Water | 6010B | 80332 |

# Lab Chronicle

Client: Intel Corporation
Project/Site: Semi Annual Waste Water - NMP Resampling

TestAmerica Job ID: 280-77995-1

## Client Sample ID: GA-01
**Date Collected: 12/07/15 10:00**
**Date Received: 12/12/15 08:40**

## Lab Sample ID: 280-77995-1
**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3005A | | | 50 mL | 50 mL | 80332 | 12/19/15 07:46 | SGO | TAL PHX |
| Total/NA | Analysis | 6010B | | 1 | 50 mL | 50 mL | 80459 | 12/21/15 19:00 | AJC | TAL PHX |

## Client Sample ID: GA-02
**Date Collected: 12/08/15 10:00**
**Date Received: 12/12/15 08:40**

## Lab Sample ID: 280-77995-2
**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3005A | | | 50 mL | 50 mL | 80332 | 12/19/15 07:46 | SGO | TAL PHX |
| Total/NA | Analysis | 6010B | | 1 | 50 mL | 50 mL | 80459 | 12/21/15 19:02 | AJC | TAL PHX |

## Client Sample ID: GA-03
**Date Collected: 12/09/15 10:00**
**Date Received: 12/12/15 08:40**

## Lab Sample ID: 280-77995-3
**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3005A | | | 50 mL | 50 mL | 80332 | 12/19/15 07:46 | SGO | TAL PHX |
| Total/NA | Analysis | 6010B | | 1 | 50 mL | 50 mL | 80459 | 12/21/15 19:04 | AJC | TAL PHX |

## Client Sample ID: GA-04
**Date Collected: 12/10/15 10:00**
**Date Received: 12/12/15 08:40**

## Lab Sample ID: 280-77995-4
**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3005A | | | 50 mL | 50 mL | 80332 | 12/19/15 07:46 | SGO | TAL PHX |
| Total/NA | Analysis | 6010B | | 1 | 50 mL | 50 mL | 80459 | 12/21/15 19:06 | AJC | TAL PHX |

## Client Sample ID: NMP-01
**Date Collected: 12/10/15 10:00**
**Date Received: 12/12/15 08:40**

## Lab Sample ID: 280-77995-5
**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3510C | | | 1040 mL | 2 mL | 211268 | 12/17/15 09:00 | JDR | TAL CAN |
| Total/NA | Analysis | 8270C | | 5 | 1040 mL | 2 mL | 211747 | 12/21/15 19:22 | JMG | TAL CAN |
| Total/NA | Prep | 3510C | RA | | 1040 mL | 2 mL | 211268 | 12/17/15 09:00 | JDR | TAL CAN |
| Total/NA | Analysis | 8270C | RA | 10 | 1040 mL | 2 mL | 211901 | 12/22/15 17:53 | JMG | TAL CAN |

**Laboratory References:**

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

TAL PHX = TestAmerica Phoenix, 4625 East Cotton Ctr Blvd, Suite 189, Phoenix, AZ 85040, TEL (602)437-3340

# Login Sample Receipt Checklist

Client: Intel Corporation

Job Number: 280-77995-1

**Login Number: 77995**
**List Number: 1**
**Creator: Muniz, Ashley T**

**List Source: TestAmerica Denver**

| Question | Answer | Comment |
|---|---|---|
| Radioactivity wasn't checked or is </= 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? | False | Field left blank |
| There are no discrepancies between the containers received and the COC. | True | |
| Samples are received within Holding Time. | 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 <6mm (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: 280-77995-1

**Login Number: 77995**
**List Number: 3**
**Creator: Gravlin, Andrea**

**List Source: TestAmerica Phoenix**
**List Creation: 12/18/15 01:48 PM**

| Question | Answer | Comment |
|---|---|---|
| Radioactivity wasn't checked or is </= 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? | False | |
| There are no discrepancies between the containers received and the COC. | True | |
| Samples are received within Holding Time. | 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 <6mm (1/4"). | True | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | Check done at department level as required. |

TestAmerica Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Fax (303) 431-7171

# Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

| Client Information | Sampler: | Lab PM: Bindel, DiLea | Carrier Tracking No(s): | COC No: 280-23927-10503.1 |
|---|---|---|---|---|
| Client Contact: Jeff Rudnik | Phone: | E-Mail: dilea.bindel@testamericainc.com | | Page: Page 1 of 1 |
| Company: Intel Corporation | | | | Job #: |
| Address: 4100 Sara Road Mail Stop RR5-491 | Due Date Requested: | | | |
| City: Rio Rancho | TAT Requested (days): | | | |
| State, Zip: NM, 87124 | | | | |
| Phone: 505-353-6943 (Tel) | PO #: | | | |
| Email: jeffrey.rudnik@intel.com | WO #: | | | |
| Project Name: Semi Annual Waste Water - NMP Resampling | Project #: 28003759 | | | |
| Site: | SSOW#: | | | |

**Analysis Requested**

Preservation Codes:

| | |
|---|---|
| A - HCL | M - Hexane |
| B - NaOH | N - None |
| C - Zn Acetate | O - AsNaO2 |
| D - Nitric Acid | P - Na2O4S |
| E - NaHSO4 | Q - Na2SO3 |
| F - MeOH | R - Na2S2SO3 |
| G - Amchlor | S - H2SO4 |
| H - Ascorbic Acid | T - TSP Dodecahydrate |
| I - Ice | U - Acetone |
| J - DI Water | V - MCAA |
| K - EDTA | W - ph 4-5 |
| L - EDA | Z - other (specify) |

Other:

| Sample Identification | Sample Date | Sample Time | Sample Type (C=Comp, G=grab) | Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air) | Field Filtered Sample (Yes or No) | Perform MS/MSD (Yes or No) | 8270C - 1-Methyl-2-pyrrolidone (NMP) (Sub to Canton) | GALLIUM | Total Number of containers | Special Instructions/Note: 8270C-NMP (Sub to Canton) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Preservation Code: | | | | N | | | |
| GA-01 | 12/7/15 | 10:00 | C | W | | | | X | | |
| GA-02 | 12/8/15 | 10:00 | C | W | | | | X | | |
| GA-03 | 12/9/15 | 10:00 | C | W | | | | X | | |
| GA-04 | 12/10/15 | 10:00 | C | W | | | | X | | |
| NMP-01 (2 ea.) | 12/10/15 | 10:00 | C | W | | | X | | | |

280-77995 Chain of Custody

*Possible Hazard Identification*
☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

*Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)*
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

| Empty Kit Relinquished by: | Date: | Time: | Method of Shipment: |
|---|---|---|---|

| | Date/Time: | Company | Received by: | Date/Time: | Company |
|---|---|---|---|---|---|
| Relinquished by: K. URBAN | 12-10-15 / 12 NOON | ZANTEL | | 0840 12Dec15 | TAL |
| Relinquished by: | Date/Time: | Company | Received by: | Date/Time: | Company |
| Relinquished by: | Date/Time: | Company | Received by: | Date/Time: | Company |

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 2.1 IR TM 0 CAW 12DEC15

1.4/C1.1

**TestAmerica Denver**
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Arvada, CO 80002
Phone (303) 736-0100 Fax (303) 431-7171

# Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

| Client Information (Sub Contract Lab) | Sampler: | Lab PM: Bindel, DiLea R | Carrier Tracking No(s): | COC No: 280-333820.1 |
|---|---|---|---|---|
| Client Contact: Shipping/Receiving | Phone: | E-Mail: dilea.bindel@testamericainc.com | | Page: Page 1 of 1 |
| Company: TestAmerica Laboratories, Inc. | | | | Job #: 280-77995-1 |
| Address: 4101 Shuffel Street NW, , | Due Date Requested: 12/23/2015 | | | |
| City: North Canton | TAT Requested (days): | | | |
| State, Zip: OH, 44720 | | | | |
| Phone: 330-497-9396(Tel) 330-497-0772(Fax) | PO #: | | | |
| Email: | WO #: | | | |
| Project Name: Semi Annual Waste Water | Project #: 28003759 | | | |
| Site: | SSOW#: | | | |

**Analysis Requested**

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)
Other:

W6

| Sample Identification - Client ID (Lab ID) | Sample Date | Sample Time | Sample Type (C=comp, G=grab) | Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air) | Field Filtered Sample (Yes or No) | Perform MS/MSD (Yes or No) | 8270C/3510C_Acid 1-Methyl-2-Pyrrolidone (NMP) | Total Number of containers | Special Instructions/Note: |
|---|---|---|---|---|---|---|---|---|---|
| | | | Preservation Code: | | | | | | |
| NMP-01 (280-77995-5) | 12/10/15 | 10:00 Mountain | | Water | | | X | 2 | Expires 17 Dec 15 |

**Possible Hazard Identification**
Unconfirmed

**Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)**
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

| Empty Kit Relinquished by: | Date: | Time: | Method of Shipment: |
|---|---|---|---|

| | Relinquished by: | Date/Time: | Company | Received by: | Date/Time: | Company |
|---|---|---|---|---|---|---|
| 1 | [signature] | 1700 15Dec15 | TAD | [signature] | 12/16/15 930 | TA |
| 2 | Relinquished by: | Date/Time: | Company | Received by: | Date/Time: | Company |
| 3 | Relinquished by: | Date/Time: | Company | Received by: | Date/Time: | Company |

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks:



12/29/2015

TestAmerica Canton Sample Receipt Form/Narrative
Canton Facility

Login # :

Client Denver Site Name

Cooler Received on 12-16-15 Opened on 12-16-15

Cooler unpacked by:

FedEx: 1st Grd (Exp) UPS FAS Stetson Client Drop Off TestAmerica Courier Other

Receipt After-hours: Drop-off Date/Time Storage Location

TestAmerica Cooler # Foam Box (Client Cooler) Box Other

Packing material used: Bubble Wrap Foam Plastic Bag None Other

COOLANT: (Wet Ice) Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt

IR GUN# 53 (CF +0.1 °C) Observed Cooler Temp. °C Corrected Cooler Temp. °C

IR GUN# 48 (CF -0.3 °C) Observed Cooler Temp. 1.4 °C Corrected Cooler Temp. 1.1 °C ☐ See Multiple Cooler Form

~~IR GUN# 5 (CF +0.4 °C) Observed Cooler Temp. °C Corrected Cooler Temp. °C~~

IR GUN# 8 (CF -0.5 °C) Observed Cooler Temp. °C Corrected Cooler Temp. °C

| | | |
|---|---|---|
| 2. Were custody seals on the outside of the cooler(s)? If Yes Quantity 1 | (Yes) | No |
| -Were custody seals on the outside of the cooler(s) signed & dated? | (Yes) | No NA |
| -Were custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? | Yes | (No) |
| 3. Shippers' packing slip attached to the cooler(s)? | (Yes) | No |
| 4. Did custody papers accompany the sample(s)? | (Yes) | No |
| 5. Were the custody papers relinquished & signed in the appropriate place? | (Yes) | No |
| 6. Was/were the person(s) who collected the samples clearly identified on the COC? | Yes | (No) |
| 7. Did all bottles arrive in good condition (Unbroken)? | (Yes) | No |
| 8. Could all bottle labels be reconciled with the COC? | (Yes) | No |
| 9. Were correct bottle(s) used for the test(s) indicated? | (Yes) | No |
| 10. Sufficient quantity received to perform indicated analyses? | (Yes) | No |
| 11. Were sample(s) at the correct pH upon receipt? | Yes | No (NA) pH Strip Lot# HC559158 |
| 12. Were VOAs on the COC? | Yes | (No) |
| 13. Were air bubbles >6 mm in any VOA vials? | Yes | No ~~NA~~ |
| 14. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # | Yes | (No) |
| 15. Was a LL Hg or Me Hg trip blank present? | Yes | (No) |

Contacted PM Date by via Verbal Voice Mail Other

Concerning

14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

Samples processed by:

15. 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)

16. SAMPLE PRESERVATION

Sample(s) were further preserved in the laboratory.

Time preserved: Preservative(s) added/Lot number(s):

**TestAmerica Denver**
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Fax (303) 431-7171

# Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

12/29/2015

| Client Information (Sub Contract Lab) | Sampler: | Lab PM: Bindel, DiLea R | Carrier Tracking No(s): | COC No: 280-333999.1 |
|---|---|---|---|---|
| Client Contact: Shipping/Receiving | Phone: | E-Mail: dilea.bindel@testamericainc.com | | Page: Page 1 of 1 |
| Company: TestAmerica Laboratories, Inc | | Analysis Requested | | Job #: 280-77995-1 |
| Address: 4625 East Cotton Ctr Blvd, Suite 189, | Due Date Requested: 12/24/2015 | | | |
| City: Phoenix | TAT Requested (days): Standard TAT | | | |
| State, Zip: AZ, 85040 | | | | |
| Phone: 602-437-3340(Tel) 602-454-9303(Fax) | PO #: | | | |
| Email: | WO #: | | | |
| Project Name: Semi Annual Waste Water - NMP Resampling | Project #: 28003759 | | | |
| Site: New Mexico | SSOW#: | | | |

**Preservation Codes:**

| | |
|---|---|
| A - HCL | M - Hexane |
| B - NaOH | N - None |
| C - Zn Acetate | O - AsNaO2 |
| D - Nitric Acid | P - Na2O4S |
| E - NaHSO4 | Q - Na2SO3 |
| F - MeOH | R - Na2S2SO3 |
| G - Amchlor | S - H2SO4 |
| H - Ascorbic Acid | T - TSP Dodecahydrate |
| I - Ice | U - Acetone |
| J - DI Water | V - MCAA |
| K - EDTA | W - ph 4-5 |
| L - EDA | Z - other (specify) |

Other:

| Sample Identification - Client ID (Lab ID) | Sample Date | Sample Time | Sample Type (C=comp, G=grab) | Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air) | Field Filtered Sample (Yes or No) | Perform MS/MSD (Yes or No) | 6010B/3005A_TOT Gallium (TA PHX) | Total Number of containers | Special Instructions/Note: |
|---|---|---|---|---|---|---|---|---|---|
| | | | Preservation Code: | | | | D | | |
| GA-01 (280-77995-1) | 12/7/15 | 10:00 Mountain | C | Water | | | X | 1 | |
| GA-02 (280-77995-2) | 12/8/15 | 10:00 Mountain | C | Water | | | X | 1 | |
| GA-03 (280-77995-3) | 12/9/15 | 10:00 Mountain | C | Water | | | X | 1 | |
| GA-04 (280-77995-4) | 12/10/15 | 10:00 Mountain | C | Water | | | X | 1 | |

***Possible Hazard Identification***
*Unconfirmed*

***Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)***
☐ *Return To Client* ☒ *Disposal By Lab* ☐ *Archive For* _____ *Months*

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

| Empty Kit Relinquished by: | Date: | Time: | Method of Shipment: |
|---|---|---|---|

| | Date/Time: | Company | Received by: | Date/Time: | Company |
|---|---|---|---|---|---|
| Relinquished by: | 12/17/15 @ 1500 | TAO | | 12/18/15 9:50 | TA |
| Relinquished by: | Date/Time: | Company | Received by: | Date/Time: | Company |
| Relinquished by: | Date/Time: | Company | Received by: | Date/Time: | Company |

| Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 0.9°C |
|---|---|---|

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

# ANALYTICAL REPORT

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

TestAmerica Job ID: 280-71758-1
Client Project/Site: Monthly WUA Split Sampling

For:
Intel Corporation
4100 Sara Road
Mail Stop RR5-465
Rio Rancho, New Mexico 87124

Attn: Jeff Rudnik

*Authorized for release by:*
*7/23/2015 9:22:34 AM*

Stephanie Kupper, Project Manager I
(303)736-0182
stephanie.kupper@testamericainc.com

# Table of Contents

# Definitions/Glossary

Client: Intel Corporation
Project/Site: Monthly WUA Split Sampling

TestAmerica Job ID: 280-71758-1

## Qualifiers

### General Chemistry

| Qualifier | Qualifier Description |
|---|---|
| * | LCS or LCSD is outside acceptance 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, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC | Decision level concentration |
| MDA | Minimum detectable activity |
| EDL | Estimated Detection Limit |
| MDC | Minimum detectable concentration |
| MDL | Method Detection Limit |
| ML | Minimum Level (Dioxin) |
| 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 |
| 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) |

## Job ID: 280-71758-1

### Laboratory: TestAmerica Denver

**Narrative**

# CASE NARRATIVE
# Client: Intel Corporation
# Project: Monthly WUA Split Sampling
# Report Number: 280-71758-1

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 7/11/2015 at 8:50 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.5º C.

The client was contacted on 7/13/2015 and instructed the laboratory to log each sample as individual samples, no compositing required by lab.

**GENERAL CHEMISTRY**

The laboratory control sample (LCS) for batch 280-286290 recovered outside control limits for Cyanide. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

Samples OUTFALL COMPOSITE-3 (280-71758-3)[10X] and OUTFALL COMPOSITE-6 (280-71758-6)[10X] required dilution prior to analysis for Ammonia. The reporting limits have been adjusted accordingly.

Samples OUTFALL COMPOSITE-3 (280-71758-3)[5X] and OUTFALL COMPOSITE-6 (280-71758-6)[10X] required dilution prior to analysis for TKN. The reporting limits have been adjusted accordingly.

Samples OUTFALL COMPOSITE-2 (280-71758-2)[5X] and OUTFALL COMPOSITE-5 (280-71758-5)[2X] required dilution prior to analysis for COD. The reporting limits have been adjusted accordingly.

The following sample was diluted for TSS due to slow filtration: OUTFALL COMPOSITE-4 (280-71758-4). Elevated reporting limits (RLs) are provided.

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

# Detection Summary

Client: Intel Corporation
Project/Site: Monthly WUA Split Sampling

TestAmerica Job ID: 280-71758-1

## Client Sample ID: OUTFALL COMPOSITE-1 — Lab Sample ID: 280-71758-1

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Total Suspended Solids | 20 | | 4.0 | | mg/L | 1 | | SM 2540D | Total/NA |

## Client Sample ID: OUTFALL COMPOSITE-2 — Lab Sample ID: 280-71758-2

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Chemical Oxygen Demand | 150 | | 100 | | mg/L | 5 | | 410.4 | Total/NA |

## Client Sample ID: OUTFALL COMPOSITE-3 — Lab Sample ID: 280-71758-3

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Ammonia as N | 35 | | 1.0 | | mg/L | 10 | | 350.1 | Total/NA |
| Nitrogen, Kjeldahl | 24 | | 5.0 | | mg/L | 5 | | 351.2 | Total/NA |

## Client Sample ID: OUTFALL COMPOSITE-4 — Lab Sample ID: 280-71758-4

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Total Suspended Solids | 79 | | 6.7 | | mg/L | 1 | | SM 2540D | Total/NA |

## Client Sample ID: OUTFALL COMPOSITE-5 — Lab Sample ID: 280-71758-5

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Chemical Oxygen Demand | 150 | | 40 | | mg/L | 2 | | 410.4 | Total/NA |

## Client Sample ID: OUTFALL COMPOSITE-6 — Lab Sample ID: 280-71758-6

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Ammonia as N | 39 | | 1.0 | | mg/L | 10 | | 350.1 | Total/NA |
| Nitrogen, Kjeldahl | 34 | | 10 | | mg/L | 10 | | 351.2 | Total/NA |

## Client Sample ID: OUTFALL GRAB-1 — Lab Sample ID: 280-71758-7

No Detections.

## Client Sample ID: OUTFALL GRAB-2 — Lab Sample ID: 280-71758-8

No Detections.

## Client Sample ID: OUTFALL GRAB-3 — Lab Sample ID: 280-71758-9

No Detections.

## Client Sample ID: OUTFALL GRAB-4 — Lab Sample ID: 280-71758-10

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Denver

# Method Summary

Client: Intel Corporation
Project/Site: Monthly WUA Split Sampling

TestAmerica Job ID: 280-71758-1

| Method | Method Description | Protocol | Laboratory |
|---|---|---|---|
| 350.1 | Nitrogen, Ammonia | MCAWW | TAL DEN |
| 351.2 | Nitrogen, Total Kjeldahl (Colorimetric, Semi-Automated Block Digester, AAII) | MCAWW | TAL DEN |
| 410.4 | COD | MCAWW | TAL DEN |
| SM 2540D | Solids, Total Suspended (TSS) | SM | TAL DEN |
| SM 4500 CN E | Cyanide, Total | SM | TAL DEN |

**Protocol References:**

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater",

**Laboratory References:**

TAL DEN = TestAmerica Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

# Sample Summary

Client: Intel Corporation
Project/Site: Monthly WUA Split Sampling

TestAmerica Job ID: 280-71758-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---|---|---|---|---|
| 280-71758-1 | OUTFALL COMPOSITE-1 | Water | 07/09/15 09:00 | 07/11/15 08:50 |
| 280-71758-2 | OUTFALL COMPOSITE-2 | Water | 07/09/15 09:00 | 07/11/15 08:50 |
| 280-71758-3 | OUTFALL COMPOSITE-3 | Water | 07/09/15 09:00 | 07/11/15 08:50 |
| 280-71758-4 | OUTFALL COMPOSITE-4 | Water | 07/10/15 09:20 | 07/11/15 08:50 |
| 280-71758-5 | OUTFALL COMPOSITE-5 | Water | 07/10/15 09:20 | 07/11/15 08:50 |
| 280-71758-6 | OUTFALL COMPOSITE-6 | Water | 07/10/15 09:20 | 07/11/15 08:50 |
| 280-71758-7 | OUTFALL GRAB-1 | Water | 07/08/15 10:00 | 07/11/15 08:50 |
| 280-71758-8 | OUTFALL GRAB-2 | Water | 07/08/15 14:00 | 07/11/15 08:50 |
| 280-71758-9 | OUTFALL GRAB-3 | Water | 07/08/15 18:00 | 07/11/15 08:50 |
| 280-71758-10 | OUTFALL GRAB-4 | Water | 07/08/15 22:00 | 07/11/15 08:50 |

## General Chemistry

**Client Sample ID: OUTFALL COMPOSITE-1**
**Date Collected: 07/09/15 09:00**
**Date Received: 07/11/15 08:50**
**Lab Sample ID: 280-71758-1**
**Matrix: Water**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total Suspended Solids | 20 | | 4.0 | | mg/L | | | 07/16/15 16:45 | 1 |

**Client Sample ID: OUTFALL COMPOSITE-2**
**Date Collected: 07/09/15 09:00**
**Date Received: 07/11/15 08:50**
**Lab Sample ID: 280-71758-2**
**Matrix: Water**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Chemical Oxygen Demand | 150 | | 100 | | mg/L | | | 07/14/15 11:14 | 5 |

**Client Sample ID: OUTFALL COMPOSITE-3**
**Date Collected: 07/09/15 09:00**
**Date Received: 07/11/15 08:50**
**Lab Sample ID: 280-71758-3**
**Matrix: Water**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Ammonia as N | 35 | | 1.0 | | mg/L | | | 07/15/15 19:57 | 10 |
| Nitrogen, Kjeldahl | 24 | | 5.0 | | mg/L | | 07/18/15 17:54 | 07/22/15 21:04 | 5 |

**Client Sample ID: OUTFALL COMPOSITE-4**
**Date Collected: 07/10/15 09:20**
**Date Received: 07/11/15 08:50**
**Lab Sample ID: 280-71758-4**
**Matrix: Water**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total Suspended Solids | 79 | | 6.7 | | mg/L | | | 07/16/15 16:45 | 1 |

**Client Sample ID: OUTFALL COMPOSITE-5**
**Date Collected: 07/10/15 09:20**
**Date Received: 07/11/15 08:50**
**Lab Sample ID: 280-71758-5**
**Matrix: Water**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Chemical Oxygen Demand | 150 | | 40 | | mg/L | | | 07/14/15 11:14 | 2 |

**Client Sample ID: OUTFALL COMPOSITE-6**
**Date Collected: 07/10/15 09:20**
**Date Received: 07/11/15 08:50**
**Lab Sample ID: 280-71758-6**
**Matrix: Water**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Ammonia as N | 39 | | 1.0 | | mg/L | | | 07/15/15 20:29 | 10 |
| Nitrogen, Kjeldahl | 34 | | 10 | | mg/L | | 07/18/15 17:54 | 07/22/15 21:06 | 10 |

**Client Sample ID: OUTFALL GRAB-1**
**Date Collected: 07/08/15 10:00**
**Date Received: 07/11/15 08:50**
**Lab Sample ID: 280-71758-7**
**Matrix: Water**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Cyanide, Total | ND | * | 0.010 | | mg/L | | 07/15/15 09:41 | 07/15/15 17:15 | 1 |

**Client Sample ID: OUTFALL GRAB-2**
**Date Collected: 07/08/15 14:00**
**Date Received: 07/11/15 08:50**
**Lab Sample ID: 280-71758-8**
**Matrix: Water**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Cyanide, Total | ND | * | 0.010 | | mg/L | | 07/15/15 09:41 | 07/15/15 17:16 | 1 |

**Client Sample ID: OUTFALL GRAB-3**
**Date Collected: 07/08/15 18:00**
**Date Received: 07/11/15 08:50**
**Lab Sample ID: 280-71758-9**
**Matrix: Water**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Cyanide, Total | ND | * | 0.010 | | mg/L | | 07/15/15 09:41 | 07/15/15 17:18 | 1 |

Client: Intel Corporation
Project/Site: Monthly WUA Split Sampling

TestAmerica Job ID: 280-71758-1

## General Chemistry

**Client Sample ID: OUTFALL GRAB-4**
**Date Collected: 07/08/15 22:00**
**Date Received: 07/11/15 08:50**

**Lab Sample ID: 280-71758-10**
**Matrix: Water**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Cyanide, Total | ND | * | 0.010 | | mg/L | | 07/15/15 09:41 | 07/15/15 17:19 | 1 |

## Method: 350.1 - Nitrogen, Ammonia

**Lab Sample ID: MB 280-286298/109**
**Matrix: Water**
**Analysis Batch: 286298**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Ammonia as N | ND | | 0.10 | | mg/L | | | 07/15/15 18:25 | 1 |

**Lab Sample ID: LCS 280-286298/107**
**Matrix: Water**
**Analysis Batch: 286298**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Ammonia as N | 2.50 | 2.31 | | mg/L | | 92 | 90 - 110 |

**Lab Sample ID: LCSD 280-286298/108**
**Matrix: Water**
**Analysis Batch: 286298**

**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 |
|---|---|---|---|---|---|---|---|---|---|
| Ammonia as N | 2.50 | 2.52 | | mg/L | | 101 | 90 - 110 | 9 | 10 |

## Method: 351.2 - Nitrogen, Total Kjeldahl (Colorimetric, Semi-Automated Block Digester, AAII)

**Lab Sample ID: MB 280-286700/3-A**
**Matrix: Water**
**Analysis Batch: 286731**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 286700**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Nitrogen, Kjeldahl | ND | | 1.0 | | mg/L | | 07/18/15 17:54 | 07/19/15 17:06 | 1 |

**Lab Sample ID: LCS 280-286700/1-A**
**Matrix: Water**
**Analysis Batch: 286731**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 286700**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Nitrogen, Kjeldahl | 6.00 | 6.26 | | mg/L | | 104 | 90 - 110 |

**Lab Sample ID: LCSD 280-286700/2-A**
**Matrix: Water**
**Analysis Batch: 286731**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 286700**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Nitrogen, Kjeldahl | 6.00 | 6.35 | | mg/L | | 106 | 90 - 110 | 1 | 25 |

## Method: 410.4 - COD

**Lab Sample ID: MB 280-286010/5**
**Matrix: Water**
**Analysis Batch: 286010**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Chemical Oxygen Demand | ND | | 20 | | mg/L | | | 07/14/15 11:14 | 1 |

## Method: 410.4 - COD (Continued)

**Lab Sample ID: LCS 280-286010/3**
**Matrix: Water**
**Analysis Batch: 286010**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Chemical Oxygen Demand | 100 | 103 | | mg/L | | 103 | 90 - 110 |

**Lab Sample ID: LCSD 280-286010/4**
**Matrix: Water**
**Analysis Batch: 286010**

**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 |
|---|---|---|---|---|---|---|---|---|---|
| Chemical Oxygen Demand | 100 | 95.8 | | mg/L | | 96 | 90 - 110 | 8 | 11 |

**Lab Sample ID: 280-71758-5 MS**
**Matrix: Water**
**Analysis Batch: 286010**

**Client Sample ID: OUTFALL COMPOSITE-5**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| Chemical Oxygen Demand | 150 | | 100 | 245 | | mg/L | | 99 | 90 - 110 |

**Lab Sample ID: 280-71758-5 MSD**
**Matrix: Water**
**Analysis Batch: 286010**

**Client Sample ID: OUTFALL COMPOSITE-5**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chemical Oxygen Demand | 150 | | 100 | 247 | | mg/L | | 101 | 90 - 110 | 1 | 11 |

## Method: SM 2540D - Solids, Total Suspended (TSS)

**Lab Sample ID: MB 280-286428/2**
**Matrix: Water**
**Analysis Batch: 286428**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total Suspended Solids | ND | | 4.0 | | mg/L | | | 07/16/15 16:45 | 1 |

**Lab Sample ID: LCS 280-286428/1**
**Matrix: Water**
**Analysis Batch: 286428**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Total Suspended Solids | 100 | 90.0 | | mg/L | | 90 | 86 - 114 |

## Method: SM 4500 CN E - Cyanide, Total

**Lab Sample ID: MB 280-286195/4-A**
**Matrix: Water**
**Analysis Batch: 286290**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 286195**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Cyanide, Total | ND | | 0.010 | | mg/L | | 07/15/15 09:41 | 07/15/15 16:58 | 1 |

## Method: SM 4500 CN E - Cyanide, Total (Continued)

**Lab Sample ID: HLCS 280-286195/1-A**
**Matrix: Water**
**Analysis Batch: 286290**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 286195**

| Analyte | Spike Added | HLCS Result | HLCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Cyanide, Total | 0.400 | 0.382 | | mg/L | | 96 | 90 - 110 |

**Lab Sample ID: LCS 280-286195/3-A**
**Matrix: Water**
**Analysis Batch: 286290**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 286195**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Cyanide, Total | 0.0870 | 0.0962 | * | mg/L | | 111 | 90 - 110 |

**Lab Sample ID: LLCS 280-286195/2-A**
**Matrix: Water**
**Analysis Batch: 286290**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 286195**

| Analyte | Spike Added | LLCS Result | LLCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Cyanide, Total | 0.100 | 0.101 | | mg/L | | 101 | 44 - 167 |

## General Chemistry

### Analysis Batch: 286010

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 280-71758-2 | OUTFALL COMPOSITE-2 | Total/NA | Water | 410.4 | |
| 280-71758-5 | OUTFALL COMPOSITE-5 | Total/NA | Water | 410.4 | |
| 280-71758-5 MS | OUTFALL COMPOSITE-5 | Total/NA | Water | 410.4 | |
| 280-71758-5 MSD | OUTFALL COMPOSITE-5 | Total/NA | Water | 410.4 | |
| LCS 280-286010/3 | Lab Control Sample | Total/NA | Water | 410.4 | |
| LCSD 280-286010/4 | Lab Control Sample Dup | Total/NA | Water | 410.4 | |
| MB 280-286010/5 | Method Blank | Total/NA | Water | 410.4 | |

### Prep Batch: 286195

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 280-71758-7 | OUTFALL GRAB-1 | Total/NA | Water | SM 4500 CN C | |
| 280-71758-8 | OUTFALL GRAB-2 | Total/NA | Water | SM 4500 CN C | |
| 280-71758-9 | OUTFALL GRAB-3 | Total/NA | Water | SM 4500 CN C | |
| 280-71758-10 | OUTFALL GRAB-4 | Total/NA | Water | SM 4500 CN C | |
| HLCS 280-286195/1-A | Lab Control Sample | Total/NA | Water | SM 4500 CN C | |
| LCS 280-286195/3-A | Lab Control Sample | Total/NA | Water | SM 4500 CN C | |
| LLCS 280-286195/2-A | Lab Control Sample | Total/NA | Water | SM 4500 CN C | |
| MB 280-286195/4-A | Method Blank | Total/NA | Water | SM 4500 CN C | |

### Analysis Batch: 286290

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 280-71758-7 | OUTFALL GRAB-1 | Total/NA | Water | SM 4500 CN E | 286195 |
| 280-71758-8 | OUTFALL GRAB-2 | Total/NA | Water | SM 4500 CN E | 286195 |
| 280-71758-9 | OUTFALL GRAB-3 | Total/NA | Water | SM 4500 CN E | 286195 |
| 280-71758-10 | OUTFALL GRAB-4 | Total/NA | Water | SM 4500 CN E | 286195 |
| HLCS 280-286195/1-A | Lab Control Sample | Total/NA | Water | SM 4500 CN E | 286195 |
| LCS 280-286195/3-A | Lab Control Sample | Total/NA | Water | SM 4500 CN E | 286195 |
| LLCS 280-286195/2-A | Lab Control Sample | Total/NA | Water | SM 4500 CN E | 286195 |
| MB 280-286195/4-A | Method Blank | Total/NA | Water | SM 4500 CN E | 286195 |

### Analysis Batch: 286298

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 280-71758-3 | OUTFALL COMPOSITE-3 | Total/NA | Water | 350.1 | |
| 280-71758-6 | OUTFALL COMPOSITE-6 | Total/NA | Water | 350.1 | |
| LCS 280-286298/107 | Lab Control Sample | Total/NA | Water | 350.1 | |
| LCSD 280-286298/108 | Lab Control Sample Dup | Total/NA | Water | 350.1 | |
| MB 280-286298/109 | Method Blank | Total/NA | Water | 350.1 | |

### Analysis Batch: 286428

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 280-71758-1 | OUTFALL COMPOSITE-1 | Total/NA | Water | SM 2540D | |
| 280-71758-4 | OUTFALL COMPOSITE-4 | Total/NA | Water | SM 2540D | |
| LCS 280-286428/1 | Lab Control Sample | Total/NA | Water | SM 2540D | |
| MB 280-286428/2 | Method Blank | Total/NA | Water | SM 2540D | |

### Prep Batch: 286700

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 280-71758-3 | OUTFALL COMPOSITE-3 | Total/NA | Water | 351.2 | |
| 280-71758-6 | OUTFALL COMPOSITE-6 | Total/NA | Water | 351.2 | |
| LCS 280-286700/1-A | Lab Control Sample | Total/NA | Water | 351.2 | |
| LCSD 280-286700/2-A | Lab Control Sample Dup | Total/NA | Water | 351.2 | |

# QC Association Summary

Client: Intel Corporation
Project/Site: Monthly WUA Split Sampling

TestAmerica Job ID: 280-71758-1

## General Chemistry (Continued)

### Prep Batch: 286700 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| MB 280-286700/3-A | Method Blank | Total/NA | Water | 351.2 | |

### Analysis Batch: 286731

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| LCS 280-286700/1-A | Lab Control Sample | Total/NA | Water | 351.2 | 286700 |
| LCSD 280-286700/2-A | Lab Control Sample Dup | Total/NA | Water | 351.2 | 286700 |
| MB 280-286700/3-A | Method Blank | Total/NA | Water | 351.2 | 286700 |

### Analysis Batch: 287336

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 280-71758-3 | OUTFALL COMPOSITE-3 | Total/NA | Water | 351.2 | 286700 |
| 280-71758-6 | OUTFALL COMPOSITE-6 | Total/NA | Water | 351.2 | 286700 |

# Lab Chronicle

Client: Intel Corporation
Project/Site: Monthly WUA Split Sampling

TestAmerica Job ID: 280-71758-1

## Client Sample ID: OUTFALL COMPOSITE-1
**Lab Sample ID: 280-71758-1**
**Date Collected: 07/09/15 09:00**
**Matrix: Water**
**Date Received: 07/11/15 08:50**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | SM 2540D | | 1 | 250 mL | 250 mL | 286428 | 07/16/15 16:45 | MW1 | TAL DEN |

## Client Sample ID: OUTFALL COMPOSITE-2
**Lab Sample ID: 280-71758-2**
**Date Collected: 07/09/15 09:00**
**Matrix: Water**
**Date Received: 07/11/15 08:50**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 410.4 | | 5 | 2 mL | 2 mL | 286010 | 07/14/15 11:14 | CCJ | TAL DEN |

## Client Sample ID: OUTFALL COMPOSITE-3
**Lab Sample ID: 280-71758-3**
**Date Collected: 07/09/15 09:00**
**Matrix: Water**
**Date Received: 07/11/15 08:50**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 350.1 | | 10 | | | 286298 | 07/15/15 19:57 | CML | TAL DEN |
| Total/NA | Prep | 351.2 | | | 25 mL | 25 mL | 286700 | 07/18/15 17:54 | MW1 | TAL DEN |
| Total/NA | Analysis | 351.2 | | 5 | 25 mL | 25 mL | 287336 | 07/22/15 21:04 | MW1 | TAL DEN |

## Client Sample ID: OUTFALL COMPOSITE-4
**Lab Sample ID: 280-71758-4**
**Date Collected: 07/10/15 09:20**
**Matrix: Water**
**Date Received: 07/11/15 08:50**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | SM 2540D | | 1 | 150 mL | 250 mL | 286428 | 07/16/15 16:45 | MW1 | TAL DEN |

## Client Sample ID: OUTFALL COMPOSITE-5
**Lab Sample ID: 280-71758-5**
**Date Collected: 07/10/15 09:20**
**Matrix: Water**
**Date Received: 07/11/15 08:50**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 410.4 | | 2 | 2 mL | 2 mL | 286010 | 07/14/15 11:14 | CCJ | TAL DEN |

## Client Sample ID: OUTFALL COMPOSITE-6
**Lab Sample ID: 280-71758-6**
**Date Collected: 07/10/15 09:20**
**Matrix: Water**
**Date Received: 07/11/15 08:50**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 350.1 | | 10 | | | 286298 | 07/15/15 20:29 | CML | TAL DEN |
| Total/NA | Prep | 351.2 | | | 25 mL | 25 mL | 286700 | 07/18/15 17:54 | MW1 | TAL DEN |
| Total/NA | Analysis | 351.2 | | 10 | 25 mL | 25 mL | 287336 | 07/22/15 21:06 | MW1 | TAL DEN |

# Lab Chronicle

Client: Intel Corporation
Project/Site: Monthly WUA Split Sampling

TestAmerica Job ID: 280-71758-1

## Client Sample ID: OUTFALL GRAB-1

**Lab Sample ID: 280-71758-7**
**Date Collected: 07/08/15 10:00**
**Matrix: Water**
**Date Received: 07/11/15 08:50**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | SM 4500 CN C | | | 50 mL | 50 mL | 286195 | 07/15/15 09:41 | RSN | TAL DEN |
| Total/NA | Analysis | SM 4500 CN E | | 1 | 50 mL | 50 mL | 286290 | 07/15/15 17:15 | RSN | TAL DEN |

## Client Sample ID: OUTFALL GRAB-2

**Lab Sample ID: 280-71758-8**
**Date Collected: 07/08/15 14:00**
**Matrix: Water**
**Date Received: 07/11/15 08:50**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | SM 4500 CN C | | | 50 mL | 50 mL | 286195 | 07/15/15 09:41 | RSN | TAL DEN |
| Total/NA | Analysis | SM 4500 CN E | | 1 | 50 mL | 50 mL | 286290 | 07/15/15 17:16 | RSN | TAL DEN |

## Client Sample ID: OUTFALL GRAB-3

**Lab Sample ID: 280-71758-9**
**Date Collected: 07/08/15 18:00**
**Matrix: Water**
**Date Received: 07/11/15 08:50**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | SM 4500 CN C | | | 50 mL | 50 mL | 286195 | 07/15/15 09:41 | RSN | TAL DEN |
| Total/NA | Analysis | SM 4500 CN E | | 1 | 50 mL | 50 mL | 286290 | 07/15/15 17:18 | RSN | TAL DEN |

## Client Sample ID: OUTFALL GRAB-4

**Lab Sample ID: 280-71758-10**
**Date Collected: 07/08/15 22:00**
**Matrix: Water**
**Date Received: 07/11/15 08:50**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | SM 4500 CN C | | | 50 mL | 50 mL | 286195 | 07/15/15 09:41 | RSN | TAL DEN |
| Total/NA | Analysis | SM 4500 CN E | | 1 | 50 mL | 50 mL | 286290 | 07/15/15 17:19 | RSN | TAL DEN |

**Laboratory References:**

TAL DEN = TestAmerica Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

# Certification Summary

Client: Intel Corporation
Project/Site: Monthly WUA Split Sampling

TestAmerica Job ID: 280-71758-1

## Laboratory: TestAmerica Denver

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

| Authority | Program | EPA Region | Certification ID | Expiration Date |
|---|---|---|---|---|
| A2LA | DoD ELAP | | 2907.01 | 10-31-15 |
| A2LA | ISO/IEC 17025 | | 2907.01 | 10-31-15 |
| Alabama | State Program | 4 | 40730 | 09-30-12 * |
| Alaska (UST) | State Program | 10 | UST-30 | 04-05-16 |
| Arizona | State Program | 9 | AZ0713 | 12-19-15 |
| Arkansas DEQ | State Program | 6 | 88-0687 | 06-01-16 |
| California | State Program | 9 | 2513 | 08-31-16 |
| Connecticut | State Program | 1 | PH-0686 | 09-30-16 |
| Florida | NELAP | 4 | E87667 | 06-30-15 * |
| Georgia | State Program | 4 | N/A | 01-09-15 * |
| Illinois | NELAP | 5 | 200017 | 04-30-16 |
| Iowa | State Program | 7 | 370 | 11-30-16 |
| Kansas | NELAP | 7 | E-10166 | 09-30-15 |
| Louisiana | NELAP | 6 | 02096 | 06-30-16 |
| Maine | State Program | 1 | CO0002 | 03-03-17 |
| Minnesota | NELAP | 5 | 8-999-405 | 12-31-15 |
| Nevada | State Program | 9 | CO0026 | 07-31-15 |
| New Hampshire | NELAP | 1 | 205310 | 04-28-16 |
| New Jersey | NELAP | 2 | CO004 | 09-30-15 |
| New York | NELAP | 2 | 11964 | 04-01-16 |
| North Carolina (WW/SW) | State Program | 4 | 358 | 12-31-15 |
| North Dakota | State Program | 8 | R-034 | 01-09-16 |
| Oklahoma | State Program | 6 | 8614 | 08-31-15 |
| Oregon | NELAP | 10 | 4025 | 01-09-16 |
| Pennsylvania | NELAP | 3 | 68-00664 | 07-30-15 |
| South Carolina | State Program | 4 | 72002001 | 06-30-15 * |
| Texas | NELAP | 6 | T104704183-13-8 | 09-30-15 |
| USDA | Federal | | P330-13-00202 | 07-02-16 |
| Utah | NELAP | 8 | CO00026 | 07-31-15 |
| Virginia | NELAP | 3 | 460232 | 06-14-16 |
| Washington | State Program | 10 | C583 | 08-03-15 |
| West Virginia DEP | State Program | 3 | 354 | 11-30-15 |
| Wisconsin | State Program | 5 | 999615430 | 08-31-15 |
| Wyoming (UST) | A2LA | 8 | 2907.01 | 10-31-15 |

* Certification renewal pending - certification considered valid.

**TestAmerica Denver**
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Fax (303) 431-7171

# Chain of Custody Record

280-71758 Chain of Custody

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

| Client Information | Sampler: ABCWUA | Lab PM: Kupper, Stephanie K | Carrier Tracking No(s): | COC No: |
|---|---|---|---|---|
| Client Contact: Jeff Rudnik | Phone: 505-893-1613 | E-Mail: stephanie.kupper@testamericainc.com | | Page: Page ___ of ___ |
| Company: Intel Corporation | | | | Job #: |
| Address: 4100 Sara Road Mail Stop RR5-465 | Due Date Requested: | | | |
| City: Rio Rancho | TAT Requested (days): | | | |
| State, Zip: NM, 87124 | | | | |
| Phone: 505-893-1613(Tel) | PO #: Pay by Credit Card | | | |
| Email: jeffrey.rudnik@intel.com | WO #: | | | |
| Project Name: Monthly WUA Split Sampling | Project #: 28013471 | | | |
| Site: | SSOW#: | | | |

**Analysis Requested**

| Sample Identification | Sample Date | Sample Time | Sample Type (C=comp, G=grab) | Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air) | Field Filtered Sample (Yes or No) | Perform MS/MSD (Yes or No) | TSS (EPA 160.2) | COD (EPA 410.4) | TKN/Ammonia (EPA 351.2) | Cyanide (EPA SM 4500) | Total Number of containers | Special Instructions/Note: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Preservation Code: | | | | | | | | | |
| Outfall Composite - 1 | 7/9/15 | 0900 | C | W | | | X | | | | | |
| Outfall Composite - 2 | 7/9/15 | 0900 | C | W | | | | X | | | | |
| Outfall Composite -3 | 7/9/15 | 0900 | C | W | | | | | X | | | |
| Outfall Composite - 4 | 7/10/15 | 0920 | C | W | | | X | | | | | |
| Outfall Composite - 5 | 7/10/15 | 0920 | C | W | | | | X | | | | |
| Outfall Composite - 6 | 7/10/15 | 0920 | C | W | | | | | X | | | |
| Outfall Grab - 1 | 7/8/15 | 1000 | C | W | | | | | | X | | |
| Outfall Grab - 2 | 7/8/15 | 1400 | C | W | | | | | | X | | |
| Outfall Grab - 3 | 7/8/15 | 1800 | C | W | | | | | | X | | |
| Outfall Grab - 4 | 7/8/15 | 2200 | C | W | | | | | | X | | |

**Preservation Codes:**

| | |
|---|---|
| A - HCL | M - Hexane |
| B - NaOH | N - None |
| C - Zn Acetate | O - AsNaO2 |
| D - Nitric Acid | P - Na2O4S |
| E - NaHSO4 | Q - Na2SO3 |
| F - MeOH | R - Na2S2SO3 |
| G - Amchlor | S - H2SO4 |
| H - Ascorbic Acid | T - TSP Dodecahydrate |
| I - Ice | U - Acetone |
| J - DI Water | V - MCAA |
| K - EDTA | W - ph 4-5 |
| L - EDA | Z - other (specify) |

Other:

**Possible Hazard Identification**
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

**Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)**
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

| Empty Kit Relinquished by: | Date: | Time: | Method of Shipment: |
|---|---|---|---|

| Relinquished by: | Date/Time: | Company | Received by: | Date/Time: | Company |
|---|---|---|---|---|---|
| | 7/10/15 1010 | Intel | | 850 11Jul15 | TAD |
| Relinquished by: | Date/Time: | Company | Received by: | Date/Time: | Company |
| Relinquished by: | Date/Time: | Company | Received by: | Date/Time: | Company |

| Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 1.4 IR ST01 11Jul15 |
|---|---|---|



7/23/2015

# Login Sample Receipt Checklist

Client: Intel Corporation

Job Number: 280-71758-1

**Login Number: 71758**
**List Number: 1**
**Creator: Muniz, Ashley T**

**List Source: TestAmerica Denver**

| Question | Answer | Comment |
|---|---|---|
| Radioactivity wasn't checked or is </= 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? | True | |
| There are no discrepancies between the containers received and the COC. | True | |
| Samples are received within Holding Time. | 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. | False | Limited volume received. |
| 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 <6mm (1/4"). | True | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

# ANALYTICAL REPORT

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

TestAmerica Job ID: 280-72900-1
Client Project/Site: Monthly WUA Split Sampling
Revision: 1

For:
Intel Corporation
4100 Sara Road
Mail Stop RR5-465
Rio Rancho, New Mexico 87124

Attn: Jeff Rudnik

*Authorized for release by:*
*8/20/2015 4:38:12 PM*

DiLea Bindel, Project Manager I
(303)736-0173
dilea.bindel@testamericainc.com

# Table of Contents

# Definitions/Glossary

Client: Intel Corporation
Project/Site: Monthly WUA Split Sampling

TestAmerica Job ID: 280-72900-1

## Qualifiers

### General Chemistry

| Qualifier | Qualifier Description |
|---|---|
| F1 | MS and/or MSD Recovery is outside acceptance 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, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC | Decision level concentration |
| MDA | Minimum detectable activity |
| EDL | Estimated Detection Limit |
| MDC | Minimum detectable concentration |
| MDL | Method Detection Limit |
| ML | Minimum Level (Dioxin) |
| 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 |
| 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) |

## Job ID: 280-72900-1

### Laboratory: TestAmerica Denver

**Narrative**

# CASE NARRATIVE
# Client: Intel Corporation
# Project: Monthly WUA Split Sampling
# Report Number: 280-72900-1

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 08/10/2015; the samples arrived in good condition, properly preserved and on ice. The temperature of the cooler at receipt was 12.7º C.

The samples were received at the laboratory outside the required temperature criteria. The client was contacted regarding this issue, and the laboratory was instructed to proceed wih analysis. The cooler contained water which indicated evidence of melted ice.

**GENERAL CHEMISTRY**

Due to high constituant concentrations, sample SITE OUTFALL SPLIT SAMPLE (280-72900-1)[20X] required dilution prior to analysis for Ammonia. The reporting limits have been adjusted accordingly.

Due to high constituant concentrations, sample SITE OUTFALL SPLIT SAMPLE (280-72900-1)[10X] required dilution prior to analysis for TKN. The reporting limits have been adjusted accordingly.

The matrix spike / matrix spike duplicate (MS/MSD) samples associated with analysis batch 280-290625 were performed on SITE OUTFALL SPLIT SAMPLE (280-72900-1) and exhibited recoveries outside control limits for Ammonia. Method precision and accuracy have been verified by the acceptable LCS/LCSD analysis data; therefore, corrective action is deemed unnecessary.

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

# Detection Summary

Client: Intel Corporation
Project/Site: Monthly WUA Split Sampling

TestAmerica Job ID: 280-72900-1

## Client Sample ID: SITE OUTFALL SPLIT SAMPLE — Lab Sample ID: 280-72900-1

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Ammonia as N | 38 | F1 | 2.0 | | mg/L | 20 | | 350.1 | Total/NA |
| Nitrogen, Kjeldahl | 49 | | 10 | | mg/L | 10 | | 351.2 | Total/NA |

This Detection Summary does not include radiochemical test results.

# Method Summary

Client: Intel Corporation
Project/Site: Monthly WUA Split Sampling

TestAmerica Job ID: 280-72900-1

| Method | Method Description | Protocol | Laboratory |
|---|---|---|---|
| 350.1 | Nitrogen, Ammonia | MCAWW | TAL DEN |
| 351.2 | Nitrogen, Total Kjeldahl (Colorimetric, Semi-Automated Block Digester, AAII) | MCAWW | TAL DEN |

**Protocol References:**

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

**Laboratory References:**

TAL DEN = TestAmerica Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

# Sample Summary

Client: Intel Corporation
Project/Site: Monthly WUA Split Sampling

TestAmerica Job ID: 280-72900-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---|---|---|---|---|
| 280-72900-1 | SITE OUTFALL SPLIT SAMPLE | Water | 08/07/15 09:30 | 08/10/15 08:35 |

Client: Intel Corporation
Project/Site: Monthly WUA Split Sampling

TestAmerica Job ID: 280-72900-1

## General Chemistry

**Client Sample ID: SITE OUTFALL SPLIT SAMPLE**
**Date Collected: 08/07/15 09:30**
**Date Received: 08/10/15 08:35**

**Lab Sample ID: 280-72900-1**
**Matrix: Water**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Ammonia as N | 38 | F1 | 2.0 | | mg/L | | | 08/13/15 18:19 | 20 |
| Nitrogen, Kjeldahl | 49 | | 10 | | mg/L | | 08/14/15 16:26 | 08/16/15 14:08 | 10 |

## Method: 350.1 - Nitrogen, Ammonia

**Lab Sample ID: MB 280-290625/109**
**Matrix: Water**
**Analysis Batch: 290625**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Ammonia as N | ND | | 0.10 | | mg/L | | | 08/13/15 17:12 | 1 |

**Lab Sample ID: LCS 280-290625/107**
**Matrix: Water**
**Analysis Batch: 290625**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Ammonia as N | | | 2.50 | 2.49 | | mg/L | | 100 | 90 - 110 | | |

**Lab Sample ID: LCSD 280-290625/108**
**Matrix: Water**
**Analysis Batch: 290625**

**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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Ammonia as N | | | 2.50 | 2.52 | | mg/L | | 101 | 90 - 110 | 1 | 10 |

**Lab Sample ID: 280-72900-1 MS**
**Matrix: Water**
**Analysis Batch: 290625**

**Client Sample ID: SITE OUTFALL SPLIT SAMPLE**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Ammonia as N | 38 | F1 | 20.0 | 60.5 | F1 | mg/L | | 111 | 90 - 110 | | |

**Lab Sample ID: 280-72900-1 MSD**
**Matrix: Water**
**Analysis Batch: 290625**

**Client Sample ID: SITE OUTFALL SPLIT SAMPLE**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Ammonia as N | 38 | F1 | 20.0 | 60.7 | F1 | mg/L | | 112 | 90 - 110 | 0 | 10 |

## Method: 351.2 - Nitrogen, Total Kjeldahl (Colorimetric, Semi-Automated Block Digester, AAII)

**Lab Sample ID: MB 280-290766/3-A**
**Matrix: Water**
**Analysis Batch: 290913**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 290766**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Nitrogen, Kjeldahl | ND | | 1.0 | | mg/L | | 08/14/15 16:26 | 08/16/15 13:18 | 1 |

**Lab Sample ID: LCS 280-290766/1-A**
**Matrix: Water**
**Analysis Batch: 290913**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 290766**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Nitrogen, Kjeldahl | | | 6.00 | 5.90 | | mg/L | | 98 | 90 - 110 | | |

## Method: 351.2 - Nitrogen, Total Kjeldahl (Colorimetric, Semi-Automated Block Digester, AAII) (Continued)

**Lab Sample ID: LCSD 280-290766/2-A**
**Matrix: Water**
**Analysis Batch: 290913**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 290766**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Nitrogen, Kjeldahl | | | 6.00 | 5.94 | | mg/L | | 99 | 90 - 110 | 1 | 25 |

# QC Association Summary

Client: Intel Corporation
Project/Site: Monthly WUA Split Sampling

TestAmerica Job ID: 280-72900-1

## General Chemistry

### Analysis Batch: 290625

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 280-72900-1 | SITE OUTFALL SPLIT SAMPLE | Total/NA | Water | 350.1 | |
| 280-72900-1 MS | SITE OUTFALL SPLIT SAMPLE | Total/NA | Water | 350.1 | |
| 280-72900-1 MSD | SITE OUTFALL SPLIT SAMPLE | Total/NA | Water | 350.1 | |
| LCS 280-290625/107 | Lab Control Sample | Total/NA | Water | 350.1 | |
| LCSD 280-290625/108 | Lab Control Sample Dup | Total/NA | Water | 350.1 | |
| MB 280-290625/109 | Method Blank | Total/NA | Water | 350.1 | |

### Prep Batch: 290766

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 280-72900-1 | SITE OUTFALL SPLIT SAMPLE | Total/NA | Water | 351.2 | |
| LCS 280-290766/1-A | Lab Control Sample | Total/NA | Water | 351.2 | |
| LCSD 280-290766/2-A | Lab Control Sample Dup | Total/NA | Water | 351.2 | |
| MB 280-290766/3-A | Method Blank | Total/NA | Water | 351.2 | |

### Analysis Batch: 290913

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 280-72900-1 | SITE OUTFALL SPLIT SAMPLE | Total/NA | Water | 351.2 | 290766 |
| LCS 280-290766/1-A | Lab Control Sample | Total/NA | Water | 351.2 | 290766 |
| LCSD 280-290766/2-A | Lab Control Sample Dup | Total/NA | Water | 351.2 | 290766 |
| MB 280-290766/3-A | Method Blank | Total/NA | Water | 351.2 | 290766 |

# Lab Chronicle

Client: Intel Corporation
Project/Site: Monthly WUA Split Sampling

TestAmerica Job ID: 280-72900-1

## Client Sample ID: SITE OUTFALL SPLIT SAMPLE

**Lab Sample ID: 280-72900-1**

**Date Collected: 08/07/15 09:30**

**Matrix: Water**

**Date Received: 08/10/15 08:35**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 350.1 | | 20 | | | 290625 | 08/13/15 18:19 | CML | TAL DEN |
| Total/NA | Prep | 351.2 | | | 25 mL | 25 mL | 290766 | 08/14/15 16:26 | MW1 | TAL DEN |
| Total/NA | Analysis | 351.2 | | 10 | 25 mL | 25 mL | 290913 | 08/16/15 14:08 | MW1 | TAL DEN |

**Laboratory References:**

TAL DEN = TestAmerica Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

# Certification Summary

Client: Intel Corporation
Project/Site: Monthly WUA Split Sampling

TestAmerica Job ID: 280-72900-1

## Laboratory: TestAmerica Denver

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

| Authority | Program | EPA Region | Certification ID | Expiration Date |
|---|---|---|---|---|
| A2LA | DoD ELAP | | 2907.01 | 10-31-15 |
| A2LA | ISO/IEC 17025 | | 2907.01 | 10-31-15 |
| Alabama | State Program | 4 | 40730 | 09-30-12 * |
| Alaska (UST) | State Program | 10 | UST-30 | 04-05-16 |
| Arizona | State Program | 9 | AZ0713 | 12-19-15 |
| Arkansas DEQ | State Program | 6 | 88-0687 | 06-01-16 |
| California | State Program | 9 | 2513 | 08-31-16 |
| Connecticut | State Program | 1 | PH-0686 | 09-30-16 |
| Florida | NELAP | 4 | E87667 | 06-30-15 * |
| Georgia | State Program | 4 | N/A | 01-09-15 * |
| Illinois | NELAP | 5 | 200017 | 04-30-16 |
| Iowa | State Program | 7 | 370 | 11-30-16 |
| Kansas | NELAP | 7 | E-10166 | 09-30-15 |
| Louisiana | NELAP | 6 | 02096 | 06-30-16 |
| Maine | State Program | 1 | CO0002 | 03-03-17 |
| Minnesota | NELAP | 5 | 8-999-405 | 12-31-15 |
| Nevada | State Program | 9 | CO0026 | 07-31-16 |
| New Hampshire | NELAP | 1 | 205310 | 04-28-16 |
| New Jersey | NELAP | 2 | CO004 | 09-30-15 |
| New York | NELAP | 2 | 11964 | 04-01-16 |
| North Carolina (WW/SW) | State Program | 4 | 358 | 12-31-15 |
| North Dakota | State Program | 8 | R-034 | 01-09-16 |
| Oklahoma | State Program | 6 | 8614 | 08-31-15 |
| Oregon | NELAP | 10 | 4025 | 01-09-16 |
| Pennsylvania | NELAP | 3 | 68-00664 | 08-30-15 |
| South Carolina | State Program | 4 | 72002001 | 06-30-15 * |
| Texas | NELAP | 6 | T104704183-13-8 | 09-30-15 |
| USDA | Federal | | P330-13-00202 | 07-02-16 |
| Utah | NELAP | 8 | CO00026 | 07-31-16 |
| Virginia | NELAP | 3 | 460232 | 06-14-16 |
| Washington | State Program | 10 | C583 | 08-03-15 * |
| West Virginia DEP | State Program | 3 | 354 | 11-30-15 |
| Wisconsin | State Program | 5 | 999615430 | 08-31-15 |
| Wyoming (UST) | A2LA | 8 | 2907.01 | 10-31-15 |

* Certification renewal pending - certification considered valid.

**TestAmerica Denver**
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Fax (303) 431-7171

# Chain of Custody Record

280-72900 Chain of Custody

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

| Client Information | Sampler: ABCWUA | Lab PM: Kupper, Stephanie K | COC No: 280-44204-16936.1 |
|---|---|---|---|
| Client Contact: Jeff Rudnik | Phone: 505-893-1613 | E-Mail: stephanie.kupper@testamericainc.com | Page: Page 1 of 1 |
| Company: Intel Corporation | | Analysis Requested | Job #: |
| Address: 4100 Sara Road Mail Stop RR5-465 | Due Date Requested: | | Preservation Codes: |
| City: Rio Rancho | TAT Requested (days): | | A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify) |
| State, Zip: NM, 87124 | | | |
| Phone: 505-893-1613(Tel) | PO #: Pay by Credit Card | | Other: |
| Email: jeffrey.rudnik@intel.com | WO #: | | |
| Project Name: Monthly WUA Split Sampling | Project #: 28013471 | | |
| Site: | SSOW#: | | |

| Sample Identification | Sample Date | Sample Time | Sample Type (C=Comp, G=grab) | Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air) | Field Filtered Sample (Yes or No) | Perform MS/MSD (Yes or No) | 4500_CN_E - Cyanide, Total | TKN/Ammonia (EPA 351.3) | Total Number of containers | Special Instructions/Note: |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Preservation Code: | | | | B | | | |
| Site Outfall Split Sample | 8/7/15 | 0930 | C | Water | | | | X | | |
| | | | | Water | | | | | | |
| | | | | Water | | | | | | |
| | | | | Water | | | | | | |
| | | | | Water | | | | | | |
| | | | | Water | | | | | | |
| | | | | Water | | | | | | |
| | | | | Water | | | | | | |
| | | | | Water | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |

**Possible Hazard Identification**
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

**Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)**
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

| Empty Kit Relinquished by: | Date: | Time: | Method of Shipment: | | | |
|---|---|---|---|---|---|---|
| Relinquished by: | Date/Time: 8/7/15 1100 | Company Intel | Received by: | Date/Time: 8/10/15 8:35 | Company | |
| Relinquished by: | Date/Time: | Company | Received by: | Date/Time: | Company | |
| Relinquished by: | Date/Time: | Company | Received by: | Date/Time: | Company | |

| Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 12.6 IR5 +0.1 MJ 8/10/15 |
|---|---|---|



8/20/2015

# Login Sample Receipt Checklist

Client: Intel Corporation

Job Number: 280-72900-1

**Login Number: 72900**
**List Number: 1**
**Creator: White, Denise E**

**List Source: TestAmerica Denver**

| Question | Answer | Comment |
|---|---|---|
| Radioactivity wasn't checked or is </= 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. | False | Water present in cooler; indicates evidence of melted ice. |
| Cooler Temperature is acceptable. | False | Cooler temperature outside required temperature criteria. |
| 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. | 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 <6mm (1/4"). | N/A | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

# ANALYTICAL REPORT

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

TestAmerica Job ID: 280-73886-1
Client Project/Site: Monthly WUA Split Sampling

For:
Intel Corporation
4100 Sara Road
Mail Stop RR5-465
Rio Rancho, New Mexico 87124

Attn: Jeff Rudnik

*Authorized for release by:*
*9/18/2015 5:00:43 PM*
Jamie Ide, Project Manager I
(303)736-0126
jamie.ide@testamericainc.com

Designee for

DiLea Bindel, Project Manager I
(303)736-0173
dilea.bindel@testamericainc.com

# Table of Contents

# Definitions/Glossary

Client: Intel Corporation
Project/Site: Monthly WUA Split Sampling

TestAmerica Job ID: 280-73886-1

## Qualifiers

### General Chemistry

| Qualifier | Qualifier Description |
|---|---|
| 4 | MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable. |

## 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, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC | Decision level concentration |
| MDA | Minimum detectable activity |
| EDL | Estimated Detection Limit |
| MDC | Minimum detectable concentration |
| MDL | Method Detection Limit |
| ML | Minimum Level (Dioxin) |
| 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 |
| 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) |

## Job ID: 280-73886-1

**Laboratory: TestAmerica Denver**

**Narrative**

# CASE NARRATIVE
# Client: Intel Corporation
# Project: Monthly WUA Split Sampling
# Report Number: 280-73886-1

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 sample was received on 9/4/2015 9:30 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.9º C.

**AMMONIA**

Sample SITE OUTFALL SPLIT SAMPLE (280-73886-1)[10X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

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

**TOTAL KJELDAHL NITROGEN**

The MS/MSD performed on sample SITE OUTFALL SPLIT SAMPLE (280-73886-1) exhibited spike recoveries outside QC control limits for Kjeldahl Nitrogen. The associated LCS/LCSD was in control and demonstrates that operating procedures were in control. No further action was required.

Sample SITE OUTFALL SPLIT SAMPLE (280-73886-1)[10X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

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

# Detection Summary

Client: Intel Corporation
Project/Site: Monthly WUA Split Sampling

TestAmerica Job ID: 280-73886-1

## Client Sample ID: SITE OUTFALL SPLIT SAMPLE — Lab Sample ID: 280-73886-1

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Ammonia as N | 38 | | 1.0 | | mg/L | 10 | | 350.1 | Total/NA |
| Nitrogen, Kjeldahl | 32 | | 10 | | mg/L | 10 | | 351.2 | Total/NA |

This Detection Summary does not include radiochemical test results.

# Method Summary

Client: Intel Corporation
Project/Site: Monthly WUA Split Sampling

TestAmerica Job ID: 280-73886-1

| Method | Method Description | Protocol | Laboratory |
|---|---|---|---|
| 350.1 | Nitrogen, Ammonia | MCAWW | TAL DEN |
| 351.2 | Nitrogen, Total Kjeldahl (Colorimetric, Semi-Automated Block Digester, AAII) | MCAWW | TAL DEN |

**Protocol References:**

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

**Laboratory References:**

TAL DEN = TestAmerica Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

# Sample Summary

Client: Intel Corporation
Project/Site: Monthly WUA Split Sampling

TestAmerica Job ID: 280-73886-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---|---|---|---|---|
| 280-73886-1 | SITE OUTFALL SPLIT SAMPLE | Water | 09/03/15 09:00 | 09/04/15 09:30 |

Client: Intel Corporation
Project/Site: Monthly WUA Split Sampling

TestAmerica Job ID: 280-73886-1

## General Chemistry

**Client Sample ID: SITE OUTFALL SPLIT SAMPLE**
**Date Collected: 09/03/15 09:00**
**Date Received: 09/04/15 09:30**

**Lab Sample ID: 280-73886-1**
**Matrix: Water**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Ammonia as N | 38 | | 1.0 | | mg/L | | | 09/09/15 18:40 | 10 |
| Nitrogen, Kjeldahl | 32 | | 10 | | mg/L | | 09/12/15 16:15 | 09/13/15 14:32 | 10 |

## Method: 350.1 - Nitrogen, Ammonia

**Lab Sample ID: MB 280-294388/148**
**Matrix: Water**
**Analysis Batch: 294388**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Ammonia as N | ND | | 0.10 | | mg/L | | | 09/09/15 17:39 | 1 |

**Lab Sample ID: LCS 280-294388/146**
**Matrix: Water**
**Analysis Batch: 294388**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Ammonia as N | 2.50 | 2.47 | | mg/L | | 99 | 90 - 110 |

**Lab Sample ID: LCSD 280-294388/147**
**Matrix: Water**
**Analysis Batch: 294388**

**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 |
|---|---|---|---|---|---|---|---|---|---|
| Ammonia as N | 2.50 | 2.67 | | mg/L | | 107 | 90 - 110 | 7 | 10 |

## Method: 351.2 - Nitrogen, Total Kjeldahl (Colorimetric, Semi-Automated Block Digester, AAII)

**Lab Sample ID: MB 280-294646/3-A**
**Matrix: Water**
**Analysis Batch: 294666**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 294646**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Nitrogen, Kjeldahl | ND | | 1.0 | | mg/L | | 09/12/15 16:15 | 09/13/15 13:46 | 1 |

**Lab Sample ID: LCS 280-294646/1-A**
**Matrix: Water**
**Analysis Batch: 294666**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 294646**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Nitrogen, Kjeldahl | 6.00 | 6.17 | | mg/L | | 103 | 90 - 110 |

**Lab Sample ID: LCSD 280-294646/2-A**
**Matrix: Water**
**Analysis Batch: 294666**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 294646**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Nitrogen, Kjeldahl | 6.00 | 6.12 | | mg/L | | 102 | 90 - 110 | 1 | 25 |

**Lab Sample ID: 280-73886-1 MS**
**Matrix: Water**
**Analysis Batch: 294666**

**Client Sample ID: SITE OUTFALL SPLIT SAMPLE**
**Prep Type: Total/NA**
**Prep Batch: 294646**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| Nitrogen, Kjeldahl | 32 | | 3.00 | 37.3 | 4 | mg/L | | 166 | 90 - 110 |

## Method: 351.2 - Nitrogen, Total Kjeldahl (Colorimetric, Semi-Automated Block Digester, AAII) (Continued)

**Lab Sample ID: 280-73886-1 MSD**
**Matrix: Water**
**Analysis Batch: 294666**

**Client Sample ID: SITE OUTFALL SPLIT SAMPLE**
**Prep Type: Total/NA**
**Prep Batch: 294646**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Nitrogen, Kjeldahl | 32 | | 3.00 | 37.6 | 4 | mg/L | | 174 | 90 - 110 | 1 | 25 |

# QC Association Summary

Client: Intel Corporation
Project/Site: Monthly WUA Split Sampling

TestAmerica Job ID: 280-73886-1

## General Chemistry

### Analysis Batch: 294388

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 280-73886-1 | SITE OUTFALL SPLIT SAMPLE | Total/NA | Water | 350.1 | |
| LCS 280-294388/146 | Lab Control Sample | Total/NA | Water | 350.1 | |
| LCSD 280-294388/147 | Lab Control Sample Dup | Total/NA | Water | 350.1 | |
| MB 280-294388/148 | Method Blank | Total/NA | Water | 350.1 | |

### Prep Batch: 294646

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 280-73886-1 | SITE OUTFALL SPLIT SAMPLE | Total/NA | Water | 351.2 | |
| 280-73886-1 MS | SITE OUTFALL SPLIT SAMPLE | Total/NA | Water | 351.2 | |
| 280-73886-1 MSD | SITE OUTFALL SPLIT SAMPLE | Total/NA | Water | 351.2 | |
| LCS 280-294646/1-A | Lab Control Sample | Total/NA | Water | 351.2 | |
| LCSD 280-294646/2-A | Lab Control Sample Dup | Total/NA | Water | 351.2 | |
| MB 280-294646/3-A | Method Blank | Total/NA | Water | 351.2 | |

### Analysis Batch: 294666

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 280-73886-1 | SITE OUTFALL SPLIT SAMPLE | Total/NA | Water | 351.2 | 294646 |
| 280-73886-1 MS | SITE OUTFALL SPLIT SAMPLE | Total/NA | Water | 351.2 | 294646 |
| 280-73886-1 MSD | SITE OUTFALL SPLIT SAMPLE | Total/NA | Water | 351.2 | 294646 |
| LCS 280-294646/1-A | Lab Control Sample | Total/NA | Water | 351.2 | 294646 |
| LCSD 280-294646/2-A | Lab Control Sample Dup | Total/NA | Water | 351.2 | 294646 |
| MB 280-294646/3-A | Method Blank | Total/NA | Water | 351.2 | 294646 |

# Lab Chronicle

Client: Intel Corporation
Project/Site: Monthly WUA Split Sampling

TestAmerica Job ID: 280-73886-1

## Client Sample ID: SITE OUTFALL SPLIT SAMPLE

**Lab Sample ID: 280-73886-1**

**Date Collected: 09/03/15 09:00**

**Matrix: Water**

**Date Received: 09/04/15 09:30**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 350.1 | | 10 | | | 294388 | 09/09/15 18:40 | CML | TAL DEN |
| Total/NA | Prep | 351.2 | | | 25 mL | 25 mL | 294646 | 09/12/15 16:15 | MW1 | TAL DEN |
| Total/NA | Analysis | 351.2 | | 10 | 25 mL | 25 mL | 294666 | 09/13/15 14:32 | MW1 | TAL DEN |

**Laboratory References:**

TAL DEN = TestAmerica Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

# Certification Summary

Client: Intel Corporation
Project/Site: Monthly WUA Split Sampling

TestAmerica Job ID: 280-73886-1

## Laboratory: TestAmerica Denver

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

| Authority | Program | EPA Region | Certification ID | Expiration Date |
|---|---|---|---|---|
| A2LA | DoD ELAP | | 2907.01 | 10-31-15 |
| A2LA | ISO/IEC 17025 | | 2907.01 | 10-31-15 |
| Alabama | State Program | 4 | 40730 | 09-30-12 * |
| Alaska (UST) | State Program | 10 | UST-30 | 04-05-16 |
| Arizona | State Program | 9 | AZ0713 | 12-19-15 |
| Arkansas DEQ | State Program | 6 | 88-0687 | 06-01-16 |
| California | State Program | 9 | 2513 | 08-31-16 |
| Connecticut | State Program | 1 | PH-0686 | 09-30-16 |
| Florida | NELAP | 4 | E87667 | 06-30-16 |
| Georgia | State Program | 4 | N/A | 01-09-15 * |
| Illinois | NELAP | 5 | 200017 | 04-30-16 |
| Iowa | State Program | 7 | 370 | 11-30-16 |
| Kansas | NELAP | 7 | E-10166 | 04-30-16 |
| Louisiana | NELAP | 6 | 02096 | 06-30-16 |
| Maine | State Program | 1 | CO0002 | 03-03-17 |
| Minnesota | NELAP | 5 | 8-999-405 | 12-31-15 |
| Nevada | State Program | 9 | CO0026 | 07-31-16 |
| New Hampshire | NELAP | 1 | 205310 | 04-28-16 |
| New Jersey | NELAP | 2 | CO004 | 09-30-15 |
| New York | NELAP | 2 | 11964 | 04-01-16 |
| North Carolina (WW/SW) | State Program | 4 | 358 | 12-31-15 |
| North Dakota | State Program | 8 | R-034 | 01-09-16 |
| Oklahoma | State Program | 6 | 8614 | 08-31-16 |
| Oregon | NELAP | 10 | 4025 | 01-09-16 |
| Pennsylvania | NELAP | 3 | 68-00664 | 07-31-16 |
| South Carolina | State Program | 4 | 72002001 | 06-30-15 * |
| Texas | NELAP | 6 | T104704183-15-11 | 09-30-16 |
| USDA | Federal | | P330-13-00202 | 07-02-16 |
| Utah | NELAP | 8 | CO00026 | 07-31-16 |
| Virginia | NELAP | 3 | 460232 | 06-14-16 |
| Washington | State Program | 10 | C583 | 08-03-16 |
| West Virginia DEP | State Program | 3 | 354 | 11-30-15 |
| Wisconsin | State Program | 5 | 999615430 | 08-31-16 |
| Wyoming (UST) | A2LA | 8 | 2907.01 | 10-31-15 |

* Certification renewal pending - certification considered valid.

**TestAmerica Denver**
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Fax (303) 431-7171

# Chain of Custody Record

280-73886 Chain of Custody

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

| Client Information | Sampler: ABCWUA | Lab PM: Kupper, Stephanie K | Carrier Tracking No(s): | COC No: |
|---|---|---|---|---|
| Client Contact: Jeff Rudnik | Phone: 505-893-1613 | E-Mail: stephanie.kupper@testamericainc.com | | Page: Page ___ of ___ |
| Company: Intel Corporation | | | | Job #: |
| Address: 4100 Sara Road Mail Stop RR5-465 | Due Date Requested: | | | |
| City: Rio Rancho | TAT Requested (days): | | | |
| State, Zip: NM, 87124 | | | | |
| Phone: 505-893-1613(Tel) | PO #: Pay by Credit Card | | | |
| Email: jeffrey.rudnik@intel.com | WO #: | | | |
| Project Name: Monthly WUA Split Sampling | Project #: 28013471 | | | |
| Site: | SSOW#: | | | |

**Analysis Requested**

**Preservation Codes:**

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)

Other:

| Sample Identification | Sample Date | Sample Time | Sample Type (C=comp, G=grab) | Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air) | Field Filtered Sample (Yes or No) | Perform MS/MSD (Yes or No) | TKN/Ammonia (EPA 351.3) | Total Number of containers | Special Instructions/Note: |
|---|---|---|---|---|---|---|---|---|---|
| | | | Preservation Code: | | | | | | |
| Site Outfall Split Sample | 9/3/15 | 0900 | C | W | | | X | | |

**Possible Hazard Identification**
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

**Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)**
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

| Empty Kit Relinquished by: | Date: | Time: | Method of Shipment: |
|---|---|---|---|

| Relinquished by: | Date/Time: | Company | Received by: | Date/Time: | Company |
|---|---|---|---|---|---|
| | 9/3/15 | Intel | | 0930 040915 | TDD |
| Relinquished by: | Date/Time: | Company | Received by: | Date/Time: | Company |
| Relinquished by: | Date/Time: | Company | Received by: | Date/Time: | Company |

Custody Seals Intact: Δ Yes Δ No

Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 2.8 IR Gun #1 Sept



9/18/2015

# Login Sample Receipt Checklist

Client: Intel Corporation

Job Number: 280-73886-1

**Login Number: 73886**
**List Number: 1**
**Creator: Muniz, Ashley T**

**List Source: TestAmerica Denver**

| Question | Answer | Comment |
|---|---|---|
| Radioactivity wasn't checked or is </= 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? | True | |
| There are no discrepancies between the containers received and the COC. | True | |
| Samples are received within Holding Time. | 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 <6mm (1/4"). | True | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | Samples checked, no residual chlorine detected. |

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

# ANALYTICAL REPORT

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

TestAmerica Job ID: 280-74909-1
Client Project/Site: Outfall Split Sampling

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

Attn: Jeff Rudnik

*Authorized for release by:*
*10/21/2015 9:33:08 AM*

DiLea Bindel, Project Manager I
(303)736-0173
dilea.bindel@testamericainc.com

# Table of Contents

## 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, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC | Decision level concentration |
| MDA | Minimum detectable activity |
| EDL | Estimated Detection Limit |
| MDC | Minimum detectable concentration |
| MDL | Method Detection Limit |
| ML | Minimum Level (Dioxin) |
| 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 |
| 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) |

## Job ID: 280-74909-1

**Laboratory: TestAmerica Denver**

**Narrative**

# CASE NARRATIVE
# Client: Intel Corporation
# Project: Outfall Split Sampling
# Report Number: 280-74909-1

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 10/02/2015; the samples arrived in good condition, properly preserved and on ice. The temperature of the cooler at receipt was 3.4° C.

**TOTAL METALS (ICP) - METHOD 200.7**

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

**TOTAL METALS - METHOD 200.8**

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

**GENERAL CHEMISTRY**

Due to elevated concentrations, sample SITE OUTFALL SPLIT SAMPLE-6 (280-74909-6) required dilution prior to analysis for Ammonia. The reporting limits have been adjusted accordingly.

Due to elevated concentrations, sample SITE OUTFALL SPLIT SAMPLE-6 (280-74909-6) required dilution prior to analysis for TKN. The reporting limits have been adjusted accordingly.

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

# Detection Summary

Client: Intel Corporation
Project/Site: Outfall Split Sampling

TestAmerica Job ID: 280-74909-1

## Client Sample ID: SITE OUTFALL SPLIT SAMPLE-1 — Lab Sample ID: 280-74909-1

No Detections.

## Client Sample ID: SITE OUTFALL SPLIT SAMPLE-2 — Lab Sample ID: 280-74909-2

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 130 | | 100 | | ug/L | 1 | | 200.7 Rev 4.4 | Total/NA |
| Boron | 130 | | 100 | | ug/L | 1 | | 200.7 Rev 4.4 | Total/NA |
| Arsenic | 6.6 | | 5.0 | | ug/L | 1 | | 200.8 | Total/NA |
| Copper | 86 | | 2.0 | | ug/L | 1 | | 200.8 | Total/NA |
| Molybdenum | 7.0 | | 2.0 | | ug/L | 1 | | 200.8 | Total/NA |
| Zinc | 13 | | 10 | | ug/L | 1 | | 200.8 | Total/NA |

## Client Sample ID: SITE OUTFALL SPLIT SAMPLE-3 — Lab Sample ID: 280-74909-3

No Detections.

## Client Sample ID: SITE OUTFALL SPLIT SAMPLE-4 — Lab Sample ID: 280-74909-4

No Detections.

## Client Sample ID: SITE OUTFALL SPLIT SAMPLE-5 — Lab Sample ID: 280-74909-5

No Detections.

## Client Sample ID: SITE OUTFALL SPLIT SAMPLE-6 — Lab Sample ID: 280-74909-6

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Ammonia as N | 30 | | 1.0 | | mg/L | 10 | | 350.1 | Total/NA |
| Nitrogen, Kjeldahl | 48 | | 10 | | mg/L | 10 | | 351.2 | Total/NA |

## Client Sample ID: SITE OUTFALL SPLIT SAMPLE-7 — Lab Sample ID: 280-74909-7

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Total Suspended Solids | 9.6 | | 4.0 | | mg/L | 1 | | SM 2540D | Total/NA |

This Detection Summary does not include radiochemical test results.

# Method Summary

Client: Intel Corporation
Project/Site: Outfall Split Sampling

TestAmerica Job ID: 280-74909-1

| Method | Method Description | Protocol | Laboratory |
|---|---|---|---|
| 200.7 Rev 4.4 | Metals (ICP) | EPA | TAL DEN |
| 200.8 | Metals (ICP/MS) | EPA | TAL DEN |
| 350.1 | Nitrogen, Ammonia | MCAWW | TAL DEN |
| 351.2 | Nitrogen, Total Kjeldahl (Colorimetric, Semi-Automated Block Digester, AAII) | MCAWW | TAL DEN |
| SM 2540D | Solids, Total Suspended (TSS) | SM | TAL DEN |
| SM 4500 CN E | Cyanide, Total | SM | TAL DEN |

**Protocol References:**

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater",

**Laboratory References:**

TAL DEN = TestAmerica Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

# Sample Summary

Client: Intel Corporation
Project/Site: Outfall Split Sampling

TestAmerica Job ID: 280-74909-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---|---|---|---|---|
| 280-74909-1 | SITE OUTFALL SPLIT SAMPLE-1 | Water | 10/01/15 00:30 | 10/02/15 09:35 |
| 280-74909-2 | SITE OUTFALL SPLIT SAMPLE-2 | Water | 10/01/15 10:00 | 10/02/15 09:35 |
| 280-74909-3 | SITE OUTFALL SPLIT SAMPLE-3 | Water | 10/01/15 04:30 | 10/02/15 09:35 |
| 280-74909-4 | SITE OUTFALL SPLIT SAMPLE-4 | Water | 10/01/15 06:30 | 10/02/15 09:35 |
| 280-74909-5 | SITE OUTFALL SPLIT SAMPLE-5 | Water | 10/01/15 08:30 | 10/02/15 09:35 |
| 280-74909-6 | SITE OUTFALL SPLIT SAMPLE-6 | Water | 10/01/15 10:00 | 10/02/15 09:35 |
| 280-74909-7 | SITE OUTFALL SPLIT SAMPLE-7 | Water | 10/01/15 10:00 | 10/02/15 09:35 |

## Method: 200.7 Rev 4.4 - Metals (ICP)

**Client Sample ID: SITE OUTFALL SPLIT SAMPLE-2** — **Lab Sample ID: 280-74909-2**
**Date Collected: 10/01/15 10:00** — **Matrix: Water**
**Date Received: 10/02/15 09:35**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Aluminum** | **130** | | 100 | | ug/L | | 10/07/15 14:30 | 10/13/15 04:06 | 1 |
| **Boron** | **130** | | 100 | | ug/L | | 10/07/15 14:30 | 10/13/15 04:06 | 1 |

## Method: 200.8 - Metals (ICP/MS)

**Client Sample ID: SITE OUTFALL SPLIT SAMPLE-2** — **Lab Sample ID: 280-74909-2**
**Date Collected: 10/01/15 10:00** — **Matrix: Water**
**Date Received: 10/02/15 09:35**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **6.6** | | 5.0 | | ug/L | | 10/07/15 14:30 | 10/08/15 06:14 | 1 |
| Cadmium | ND | | 1.0 | | ug/L | | 10/07/15 14:30 | 10/08/15 06:14 | 1 |
| Chromium | ND | | 3.0 | | ug/L | | 10/07/15 14:30 | 10/08/15 06:14 | 1 |
| **Copper** | **86** | | 2.0 | | ug/L | | 10/07/15 14:30 | 10/08/15 06:14 | 1 |
| Lead | ND | | 1.0 | | ug/L | | 10/07/15 14:30 | 10/08/15 06:14 | 1 |
| **Molybdenum** | **7.0** | | 2.0 | | ug/L | | 10/07/15 14:30 | 10/08/15 06:14 | 1 |
| Nickel | ND | | 2.0 | | ug/L | | 10/07/15 14:30 | 10/08/15 06:14 | 1 |
| Selenium | ND | | 5.0 | | ug/L | | 10/07/15 14:30 | 10/08/15 06:14 | 1 |
| Silver | ND | | 1.0 | | ug/L | | 10/07/15 14:30 | 10/08/15 06:14 | 1 |
| **Zinc** | **13** | | 10 | | ug/L | | 10/07/15 14:30 | 10/08/15 06:14 | 1 |

## General Chemistry

**Client Sample ID: SITE OUTFALL SPLIT SAMPLE-1** — **Lab Sample ID: 280-74909-1**
**Date Collected: 10/01/15 00:30** — **Matrix: Water**
**Date Received: 10/02/15 09:35**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Cyanide, Total | ND | | 0.010 | | mg/L | | 10/10/15 08:39 | 10/10/15 13:47 | 1 |

**Client Sample ID: SITE OUTFALL SPLIT SAMPLE-3** — **Lab Sample ID: 280-74909-3**
**Date Collected: 10/01/15 04:30** — **Matrix: Water**
**Date Received: 10/02/15 09:35**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Cyanide, Total | ND | | 0.010 | | mg/L | | 10/10/15 08:39 | 10/10/15 13:48 | 1 |

**Client Sample ID: SITE OUTFALL SPLIT SAMPLE-4** — **Lab Sample ID: 280-74909-4**
**Date Collected: 10/01/15 06:30** — **Matrix: Water**
**Date Received: 10/02/15 09:35**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Cyanide, Total | ND | | 0.010 | | mg/L | | 10/10/15 08:39 | 10/10/15 13:50 | 1 |

**Client Sample ID: SITE OUTFALL SPLIT SAMPLE-5** — **Lab Sample ID: 280-74909-5**
**Date Collected: 10/01/15 08:30** — **Matrix: Water**
**Date Received: 10/02/15 09:35**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Cyanide, Total | ND | | 0.010 | | mg/L | | 10/10/15 08:39 | 10/10/15 13:59 | 1 |

**Client Sample ID: SITE OUTFALL SPLIT SAMPLE-6** — **Lab Sample ID: 280-74909-6**
**Date Collected: 10/01/15 10:00** — **Matrix: Water**
**Date Received: 10/02/15 09:35**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Ammonia as N** | **30** | | 1.0 | | mg/L | | | 10/06/15 18:00 | 10 |

Client: Intel Corporation
Project/Site: Outfall Split Sampling

TestAmerica Job ID: 280-74909-1

## General Chemistry (Continued)

**Client Sample ID: SITE OUTFALL SPLIT SAMPLE-6**
**Date Collected: 10/01/15 10:00**
**Date Received: 10/02/15 09:35**

**Lab Sample ID: 280-74909-6**
**Matrix: Water**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Nitrogen, Kjeldahl | 48 | | 10 | | mg/L | | 10/17/15 15:44 | 10/18/15 17:49 | 10 |

**Client Sample ID: SITE OUTFALL SPLIT SAMPLE-7**
**Date Collected: 10/01/15 10:00**
**Date Received: 10/02/15 09:35**

**Lab Sample ID: 280-74909-7**
**Matrix: Water**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total Suspended Solids | 9.6 | | 4.0 | | mg/L | | | 10/06/15 12:25 | 1 |

## Method: 200.7 Rev 4.4 - Metals (ICP)

**Lab Sample ID: MB 280-298211/1-A**
**Matrix: Water**
**Analysis Batch: 299038**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 298211**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Aluminum | ND | | 100 | | ug/L | | 10/07/15 14:30 | 10/13/15 03:28 | 1 |
| Boron | ND | | 100 | | ug/L | | 10/07/15 14:30 | 10/13/15 03:28 | 1 |

**Lab Sample ID: LCS 280-298211/2-A**
**Matrix: Water**
**Analysis Batch: 299038**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 298211**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Aluminum | 2000 | 1890 | | ug/L | | 95 | 87 - 111 |
| Boron | 1000 | 989 | | ug/L | | 99 | 86 - 110 |

## Method: 200.8 - Metals (ICP/MS)

**Lab Sample ID: MB 280-298214/1-A**
**Matrix: Water**
**Analysis Batch: 298370**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 298214**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | ND | | 5.0 | | ug/L | | 10/07/15 14:30 | 10/08/15 05:41 | 1 |
| Cadmium | ND | | 1.0 | | ug/L | | 10/07/15 14:30 | 10/08/15 05:41 | 1 |
| Chromium | ND | | 3.0 | | ug/L | | 10/07/15 14:30 | 10/08/15 05:41 | 1 |
| Copper | ND | | 2.0 | | ug/L | | 10/07/15 14:30 | 10/08/15 05:41 | 1 |
| Lead | ND | | 1.0 | | ug/L | | 10/07/15 14:30 | 10/08/15 05:41 | 1 |
| Molybdenum | ND | | 2.0 | | ug/L | | 10/07/15 14:30 | 10/08/15 05:41 | 1 |
| Nickel | ND | | 2.0 | | ug/L | | 10/07/15 14:30 | 10/08/15 05:41 | 1 |
| Selenium | ND | | 5.0 | | ug/L | | 10/07/15 14:30 | 10/08/15 05:41 | 1 |
| Silver | ND | | 1.0 | | ug/L | | 10/07/15 14:30 | 10/08/15 05:41 | 1 |
| Zinc | ND | | 10 | | ug/L | | 10/07/15 14:30 | 10/08/15 05:41 | 1 |

**Lab Sample ID: LCS 280-298214/2-A**
**Matrix: Water**
**Analysis Batch: 298370**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 298214**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Arsenic | 40.0 | 38.2 | | ug/L | | 95 | 89 - 111 |
| Cadmium | 40.0 | 36.6 | | ug/L | | 91 | 89 - 111 |
| Chromium | 40.0 | 38.4 | | ug/L | | 96 | 86 - 115 |
| Copper | 40.0 | 38.7 | | ug/L | | 97 | 90 - 115 |
| Lead | 40.0 | 39.0 | | ug/L | | 98 | 88 - 115 |
| Molybdenum | 40.0 | 38.1 | | ug/L | | 95 | 89 - 112 |
| Nickel | 40.0 | 40.3 | | ug/L | | 101 | 86 - 115 |
| Selenium | 40.0 | 36.8 | | ug/L | | 92 | 85 - 114 |
| Silver | 40.0 | 38.1 | | ug/L | | 95 | 90 - 114 |
| Zinc | 40.0 | 40.8 | | ug/L | | 102 | 88 - 115 |

## Method: 350.1 - Nitrogen, Ammonia

**Lab Sample ID: MB 280-298146/20**
**Matrix: Water**
**Analysis Batch: 298146**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Ammonia as N | ND | | 0.10 | | mg/L | | | 10/06/15 16:46 | 1 |

**Lab Sample ID: LCS 280-298146/18**
**Matrix: Water**
**Analysis Batch: 298146**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Ammonia as N | | | 2.50 | 2.52 | | mg/L | | 101 | 90 - 110 | | |

**Lab Sample ID: LCSD 280-298146/19**
**Matrix: Water**
**Analysis Batch: 298146**

**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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Ammonia as N | | | 2.50 | 2.40 | | mg/L | | 96 | 90 - 110 | 5 | 10 |

## Method: 351.2 - Nitrogen, Total Kjeldahl (Colorimetric, Semi-Automated Block Digester, AAII)

**Lab Sample ID: MB 280-299843/3-A**
**Matrix: Water**
**Analysis Batch: 299875**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 299843**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Nitrogen, Kjeldahl | ND | | 1.0 | | mg/L | | 10/17/15 15:44 | 10/18/15 17:29 | 1 |

**Lab Sample ID: LCS 280-299843/1-A**
**Matrix: Water**
**Analysis Batch: 299875**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 299843**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Nitrogen, Kjeldahl | | | 6.00 | 5.71 | | mg/L | | 95 | 90 - 110 | | |

**Lab Sample ID: LCSD 280-299843/2-A**
**Matrix: Water**
**Analysis Batch: 299875**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 299843**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Nitrogen, Kjeldahl | | | 6.00 | 5.59 | | mg/L | | 93 | 90 - 110 | 2 | 25 |

## Method: SM 2540D - Solids, Total Suspended (TSS)

**Lab Sample ID: MB 280-298080/1**
**Matrix: Water**
**Analysis Batch: 298080**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total Suspended Solids | ND | | 4.0 | | mg/L | | | 10/06/15 12:25 | 1 |

## Method: SM 2540D - Solids, Total Suspended (TSS) (Continued)

**Lab Sample ID: LCS 280-298080/2**
**Matrix: Water**
**Analysis Batch: 298080**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Total Suspended Solids | 100 | 90.8 | | mg/L | | 91 | 86 - 114 |

**Lab Sample ID: LCSD 280-298080/3**
**Matrix: Water**
**Analysis Batch: 298080**

**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 |
|---|---|---|---|---|---|---|---|---|---|
| Total Suspended Solids | 100 | 94.0 | | mg/L | | 94 | 86 - 114 | 3 | 20 |

## Method: SM 4500 CN E - Cyanide, Total

**Lab Sample ID: MB 280-298756/4-A**
**Matrix: Water**
**Analysis Batch: 298786**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 298756**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Cyanide, Total | ND | | 0.010 | | mg/L | | 10/10/15 08:39 | 10/10/15 13:38 | 1 |

**Lab Sample ID: HLCS 280-298756/1-A**
**Matrix: Water**
**Analysis Batch: 298786**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 298756**

| Analyte | Spike Added | HLCS Result | HLCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Cyanide, Total | 0.400 | 0.412 | | mg/L | | 103 | 90 - 110 |

**Lab Sample ID: LCS 280-298756/3-A**
**Matrix: Water**
**Analysis Batch: 298786**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 298756**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Cyanide, Total | 0.0955 | 0.0963 | | mg/L | | 101 | 90 - 110 |

**Lab Sample ID: LLCS 280-298756/2-A**
**Matrix: Water**
**Analysis Batch: 298786**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 298756**

| Analyte | Spike Added | LLCS Result | LLCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Cyanide, Total | 0.100 | 0.104 | | mg/L | | 104 | 44 - 167 |

## Metals

### Prep Batch: 298211

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 280-74909-2 | SITE OUTFALL SPLIT SAMPLE-2 | Total/NA | Water | 200.7 | |
| LCS 280-298211/2-A | Lab Control Sample | Total/NA | Water | 200.7 | |
| MB 280-298211/1-A | Method Blank | Total/NA | Water | 200.7 | |

### Prep Batch: 298214

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 280-74909-2 | SITE OUTFALL SPLIT SAMPLE-2 | Total/NA | Water | 200.8 | |
| LCS 280-298214/2-A | Lab Control Sample | Total/NA | Water | 200.8 | |
| MB 280-298214/1-A | Method Blank | Total/NA | Water | 200.8 | |

### Analysis Batch: 298370

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 280-74909-2 | SITE OUTFALL SPLIT SAMPLE-2 | Total/NA | Water | 200.8 | 298214 |
| LCS 280-298214/2-A | Lab Control Sample | Total/NA | Water | 200.8 | 298214 |
| MB 280-298214/1-A | Method Blank | Total/NA | Water | 200.8 | 298214 |

### Analysis Batch: 299038

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 280-74909-2 | SITE OUTFALL SPLIT SAMPLE-2 | Total/NA | Water | 200.7 Rev 4.4 | 298211 |
| LCS 280-298211/2-A | Lab Control Sample | Total/NA | Water | 200.7 Rev 4.4 | 298211 |
| MB 280-298211/1-A | Method Blank | Total/NA | Water | 200.7 Rev 4.4 | 298211 |

## General Chemistry

### Analysis Batch: 298080

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 280-74909-7 | SITE OUTFALL SPLIT SAMPLE-7 | Total/NA | Water | SM 2540D | |
| LCS 280-298080/2 | Lab Control Sample | Total/NA | Water | SM 2540D | |
| LCSD 280-298080/3 | Lab Control Sample Dup | Total/NA | Water | SM 2540D | |
| MB 280-298080/1 | Method Blank | Total/NA | Water | SM 2540D | |

### Analysis Batch: 298146

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 280-74909-6 | SITE OUTFALL SPLIT SAMPLE-6 | Total/NA | Water | 350.1 | |
| LCS 280-298146/18 | Lab Control Sample | Total/NA | Water | 350.1 | |
| LCSD 280-298146/19 | Lab Control Sample Dup | Total/NA | Water | 350.1 | |
| MB 280-298146/20 | Method Blank | Total/NA | Water | 350.1 | |

### Prep Batch: 298756

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 280-74909-1 | SITE OUTFALL SPLIT SAMPLE-1 | Total/NA | Water | SM 4500 CN C | |
| 280-74909-3 | SITE OUTFALL SPLIT SAMPLE-3 | Total/NA | Water | SM 4500 CN C | |
| 280-74909-4 | SITE OUTFALL SPLIT SAMPLE-4 | Total/NA | Water | SM 4500 CN C | |
| 280-74909-5 | SITE OUTFALL SPLIT SAMPLE-5 | Total/NA | Water | SM 4500 CN C | |
| HLCS 280-298756/1-A | Lab Control Sample | Total/NA | Water | SM 4500 CN C | |
| LCS 280-298756/3-A | Lab Control Sample | Total/NA | Water | SM 4500 CN C | |
| LLCS 280-298756/2-A | Lab Control Sample | Total/NA | Water | SM 4500 CN C | |
| MB 280-298756/4-A | Method Blank | Total/NA | Water | SM 4500 CN C | |

## General Chemistry (Continued)

### Analysis Batch: 298786

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 280-74909-1 | SITE OUTFALL SPLIT SAMPLE-1 | Total/NA | Water | SM 4500 CN E | 298756 |
| 280-74909-3 | SITE OUTFALL SPLIT SAMPLE-3 | Total/NA | Water | SM 4500 CN E | 298756 |
| 280-74909-4 | SITE OUTFALL SPLIT SAMPLE-4 | Total/NA | Water | SM 4500 CN E | 298756 |
| 280-74909-5 | SITE OUTFALL SPLIT SAMPLE-5 | Total/NA | Water | SM 4500 CN E | 298756 |
| HLCS 280-298756/1-A | Lab Control Sample | Total/NA | Water | SM 4500 CN E | 298756 |
| LCS 280-298756/3-A | Lab Control Sample | Total/NA | Water | SM 4500 CN E | 298756 |
| LLCS 280-298756/2-A | Lab Control Sample | Total/NA | Water | SM 4500 CN E | 298756 |
| MB 280-298756/4-A | Method Blank | Total/NA | Water | SM 4500 CN E | 298756 |

### Prep Batch: 299843

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 280-74909-6 | SITE OUTFALL SPLIT SAMPLE-6 | Total/NA | Water | 351.2 | |
| LCS 280-299843/1-A | Lab Control Sample | Total/NA | Water | 351.2 | |
| LCSD 280-299843/2-A | Lab Control Sample Dup | Total/NA | Water | 351.2 | |
| MB 280-299843/3-A | Method Blank | Total/NA | Water | 351.2 | |

### Analysis Batch: 299875

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 280-74909-6 | SITE OUTFALL SPLIT SAMPLE-6 | Total/NA | Water | 351.2 | 299843 |
| LCS 280-299843/1-A | Lab Control Sample | Total/NA | Water | 351.2 | 299843 |
| LCSD 280-299843/2-A | Lab Control Sample Dup | Total/NA | Water | 351.2 | 299843 |
| MB 280-299843/3-A | Method Blank | Total/NA | Water | 351.2 | 299843 |

# Lab Chronicle

Client: Intel Corporation
Project/Site: Outfall Split Sampling

TestAmerica Job ID: 280-74909-1

## Client Sample ID: SITE OUTFALL SPLIT SAMPLE-1
**Lab Sample ID: 280-74909-1**
**Date Collected: 10/01/15 00:30**
**Matrix: Water**
**Date Received: 10/02/15 09:35**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | SM 4500 CN C | | | 50 mL | 50 mL | 298756 | 10/10/15 08:39 | JML | TAL DEN |
| Total/NA | Analysis | SM 4500 CN E | | 1 | 50 mL | 50 mL | 298786 | 10/10/15 13:47 | JML | TAL DEN |

## Client Sample ID: SITE OUTFALL SPLIT SAMPLE-2
**Lab Sample ID: 280-74909-2**
**Date Collected: 10/01/15 10:00**
**Matrix: Water**
**Date Received: 10/02/15 09:35**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 200.7 | | | 50 mL | 50 mL | 298211 | 10/07/15 14:30 | MLS | TAL DEN |
| Total/NA | Analysis | 200.7 Rev 4.4 | | 1 | 50 mL | 50 mL | 299038 | 10/13/15 04:06 | CRR | TAL DEN |
| Total/NA | Prep | 200.8 | | | 50 mL | 50 mL | 298214 | 10/07/15 14:30 | MLS | TAL DEN |
| Total/NA | Analysis | 200.8 | | 1 | 50 mL | 50 mL | 298370 | 10/08/15 06:14 | LMT | TAL DEN |

## Client Sample ID: SITE OUTFALL SPLIT SAMPLE-3
**Lab Sample ID: 280-74909-3**
**Date Collected: 10/01/15 04:30**
**Matrix: Water**
**Date Received: 10/02/15 09:35**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | SM 4500 CN C | | | 50 mL | 50 mL | 298756 | 10/10/15 08:39 | JML | TAL DEN |
| Total/NA | Analysis | SM 4500 CN E | | 1 | 50 mL | 50 mL | 298786 | 10/10/15 13:48 | JML | TAL DEN |

## Client Sample ID: SITE OUTFALL SPLIT SAMPLE-4
**Lab Sample ID: 280-74909-4**
**Date Collected: 10/01/15 06:30**
**Matrix: Water**
**Date Received: 10/02/15 09:35**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | SM 4500 CN C | | | 50 mL | 50 mL | 298756 | 10/10/15 08:39 | JML | TAL DEN |
| Total/NA | Analysis | SM 4500 CN E | | 1 | 50 mL | 50 mL | 298786 | 10/10/15 13:50 | JML | TAL DEN |

## Client Sample ID: SITE OUTFALL SPLIT SAMPLE-5
**Lab Sample ID: 280-74909-5**
**Date Collected: 10/01/15 08:30**
**Matrix: Water**
**Date Received: 10/02/15 09:35**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | SM 4500 CN C | | | 50 mL | 50 mL | 298756 | 10/10/15 08:39 | JML | TAL DEN |
| Total/NA | Analysis | SM 4500 CN E | | 1 | 50 mL | 50 mL | 298786 | 10/10/15 13:59 | JML | TAL DEN |

# Lab Chronicle

Client: Intel Corporation
Project/Site: Outfall Split Sampling

TestAmerica Job ID: 280-74909-1

## Client Sample ID: SITE OUTFALL SPLIT SAMPLE-6

**Lab Sample ID: 280-74909-6**

**Date Collected: 10/01/15 10:00**

**Matrix: Water**

**Date Received: 10/02/15 09:35**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 350.1 | | 10 | | | 298146 | 10/06/15 18:00 | CML | TAL DEN |
| Total/NA | Prep | 351.2 | | | 25 mL | 25 mL | 299843 | 10/17/15 15:44 | MW1 | TAL DEN |
| Total/NA | Analysis | 351.2 | | 10 | 25 mL | 25 mL | 299875 | 10/18/15 17:49 | MW1 | TAL DEN |

## Client Sample ID: SITE OUTFALL SPLIT SAMPLE-7

**Lab Sample ID: 280-74909-7**

**Date Collected: 10/01/15 10:00**

**Matrix: Water**

**Date Received: 10/02/15 09:35**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | SM 2540D | | 1 | 250 mL | 250 mL | 298080 | 10/06/15 12:25 | CML | TAL DEN |

**Laboratory References:**

TAL DEN = TestAmerica Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

# Certification Summary

Client: Intel Corporation
Project/Site: Outfall Split Sampling

TestAmerica Job ID: 280-74909-1

## Laboratory: TestAmerica Denver

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

| Authority | Program | EPA Region | Certification ID | Expiration Date |
|---|---|---|---|---|
| A2LA | DoD ELAP | | 2907.01 | 10-31-15 * |
| A2LA | ISO/IEC 17025 | | 2907.01 | 10-31-15 |
| Alabama | State Program | 4 | 40730 | 09-30-12 * |
| Alaska (UST) | State Program | 10 | UST-30 | 04-05-16 |
| Arizona | State Program | 9 | AZ0713 | 12-19-15 * |
| Arkansas DEQ | State Program | 6 | 88-0687 | 06-01-16 |
| California | State Program | 9 | 2513 | 08-31-16 |
| Connecticut | State Program | 1 | PH-0686 | 09-30-16 |
| Florida | NELAP | 4 | E87667 | 06-30-16 |
| Georgia | State Program | 4 | N/A | 01-09-15 * |
| Illinois | NELAP | 5 | 200017 | 04-30-16 |
| Iowa | State Program | 7 | 370 | 11-30-16 |
| Kansas | NELAP | 7 | E-10166 | 04-30-16 |
| Louisiana | NELAP | 6 | 02096 | 06-30-16 |
| Maine | State Program | 1 | CO0002 | 03-03-17 |
| Minnesota | NELAP | 5 | 8-999-405 | 12-31-15 |
| Nevada | State Program | 9 | CO0026 | 07-31-16 |
| New Hampshire | NELAP | 1 | 205310 | 04-28-16 |
| New Jersey | NELAP | 2 | CO004 | 10-30-15 |
| New York | NELAP | 2 | 11964 | 04-01-16 |
| North Carolina (WW/SW) | State Program | 4 | 358 | 12-31-15 |
| North Dakota | State Program | 8 | R-034 | 01-09-16 |
| Oklahoma | State Program | 6 | 8614 | 08-31-16 |
| Oregon | NELAP | 10 | 4025 | 01-09-16 |
| Pennsylvania | NELAP | 3 | 68-00664 | 07-31-16 |
| South Carolina | State Program | 4 | 72002001 | 01-09-16 |
| Texas | NELAP | 6 | T104704183-15-11 | 09-30-16 |
| USDA | Federal | | P330-13-00202 | 07-02-16 |
| Utah | NELAP | 8 | CO00026 | 07-31-16 |
| Virginia | NELAP | 3 | 460232 | 06-14-16 |
| Washington | State Program | 10 | C583 | 08-03-16 |
| West Virginia DEP | State Program | 3 | 354 | 11-30-15 |
| Wisconsin | State Program | 5 | 999615430 | 08-31-16 |
| Wyoming (UST) | A2LA | 8 | 2907.01 | 10-31-15 |

* Certification renewal pending - certification considered valid.

**TestAmerica Denver**
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Fax (303) 431-7171

# Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

| Client Information | Sampler: ABCWUA | Lab PM: Kupper, Stephanie K | Carrier Tracking No(s): | COC No: |
|---|---|---|---|---|
| Client Contact: Jeff Rudnik | Phone: 505-893-1613 | E-Mail: stephanie.kupper@testamericainc.com | | Page: Page 1 of 1 |
| Company: Intel Corporation | | | | Job #: |

| Address: 4100 Sara Road Mail Stop RR5-465 | Due Date Requested: | Analysis Requested | Preservation Codes: |
|---|---|---|---|
| City: Rio Rancho | TAT Requested (days): | | A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify) |
| State, Zip: NM, 87124 | | | |
| Phone: 505-893-1613(Tel) | PO #: Pay by Credit Card | | Other: |
| Email: jeffrey.rudnik@intel.com | WO #: | | |
| Project Name: Monthly WUA Split Sampling | Project #: 28013471 | | |
| Site: | SSOW#: | | |

| Sample Identification | Sample Date | Sample Time | Sample Type (C=comp, G=grab) | Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air) | Field Filtered Sample (Yes or No) | Perform MS/MSD (Yes or No) | Cyanide (EPA SM4500) | Metals (EPA 200.8) | TKN/Ammonia (EPA 351.3) | TSS (EPA 160.2) | Total Number of containers | Special Instructions/Note: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Preservation Code: | | | | | | | | | |
| Site Outfall Split Sample-1 | 10/1/15 | 0030 | G | W | | | X | | | | | |
| Site Outfall Split Sample-2 | 10/1/15 | 1000 | C | W | | | | X | | | | |
| Site Outfall Split Sample-3 | 10/1/15 | 0430 | G | W | | | X | | | | | |
| Site Outfall Split Sample-4 | 10/1/15 | 0630 | G | W | | | X | | | | | |
| Site Outfall Split Sample-5 | 10/1/15 | 0830 | G | W | | | X | | | | | |
| Site Outfall Split Sample-6 | 10/1/15 | 1000 | C | W | | | | | X | | | |
| Site Outfall Split Sample-7 | 10/1/15 | 1000 | C | W | | | | | | X | | |

280-74909 Chain of Custody

***Possible Hazard Identification***
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

***Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)***
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

| Empty Kit Relinquished by: | Date: | Time: | Method of Shipment: |
|---|---|---|---|

| Relinquished by: | Date/Time: | Company | Received by: | Date/Time: | Company |
|---|---|---|---|---|---|
| | 1130 10/1/15 | Intel | | 0935 02Oct15 | TAD |
| Relinquished by: | Date/Time: | Company | Received by: | Date/Time: | Company |
| Relinquished by: | Date/Time: | Company | Received by: | Date/Time: | Company |

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 3-3 IR5to.1 02Oct15 Transfer of

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10/21/2015

# Login Sample Receipt Checklist

Client: Intel Corporation

Job Number: 280-74909-1

**Login Number: 74909**
**List Number: 1**
**Creator: Muniz, Ashley T**

**List Source: TestAmerica Denver**

| Question | Answer | Comment |
|---|---|---|
| Radioactivity wasn't checked or is </= 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. | False | Refer to Job Narrative for details. |
| 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. | 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 <6mm (1/4"). | True | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

# ANALYTICAL REPORT

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

TestAmerica Job ID: 280-74946-1
Client Project/Site: Outfall Split Sampling

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

Attn: Jeff Rudnik

*Authorized for release by:*
*10/21/2015 9:39:01 AM*

DiLea Bindel, Project Manager I
(303)736-0173
dilea.bindel@testamericainc.com

# Table of Contents

## 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, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC | Decision level concentration |
| MDA | Minimum detectable activity |
| EDL | Estimated Detection Limit |
| MDC | Minimum detectable concentration |
| MDL | Method Detection Limit |
| ML | Minimum Level (Dioxin) |
| 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 |
| 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) |

## Job ID: 280-74946-1

**Laboratory: TestAmerica Denver**

**Narrative**

# CASE NARRATIVE
# Client: Intel Corporation
# Project: Outfall Split Sampling
# Report Number: 280-74946-1

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 10/03/2015; the samples arrived in good condition, properly preserved and on ice. The temperature of the cooler at receipt was 3.2º C.

**TOTAL METALS (ICP) - METHOD 200.7**

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

**TOTAL METALS - METHOD 200.8**

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

**GENERAL CHEMISTRY**

Due to elevated concentrations, sample SITE OUTFALL SPLIT SAMPLE - 3 (280-74946-3) required dilution prior to analysis for Ammonia. The reporting limits have been adjusted accordingly.

Due to elevated concentrations, sample SITE OUTFALL SPLIT SAMPLE - 3 (280-74946-3) required dilution prior to analysis for TKN. The reporting limits have been adjusted accordingly.

Due to elevated concentrations, sample SITE OUTFALL SPLIT SAMPLE - 2 (280-74946-2) required dilution prior to analysis for COD. The reporting limits have been adjusted accordingly.

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

# Detection Summary

Client: Intel Corporation
Project/Site: Outfall Split Sampling

TestAmerica Job ID: 280-74946-1

## Client Sample ID: SITE OUTFALL SPLIT SAMPLE - 1 — Lab Sample ID: 280-74946-1

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 140 | | 100 | | ug/L | 1 | | 200.7 Rev 4.4 | Total/NA |
| Boron | 120 | | 100 | | ug/L | 1 | | 200.7 Rev 4.4 | Total/NA |
| Arsenic | 9.0 | | 5.0 | | ug/L | 1 | | 200.8 | Total/NA |
| Copper | 71 | | 2.0 | | ug/L | 1 | | 200.8 | Total/NA |
| Molybdenum | 8.3 | | 2.0 | | ug/L | 1 | | 200.8 | Total/NA |

## Client Sample ID: SITE OUTFALL SPLIT SAMPLE - 2 — Lab Sample ID: 280-74946-2

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Chemical Oxygen Demand | 170 | | 40 | | mg/L | 2 | | 410.4 | Total/NA |

## Client Sample ID: SITE OUTFALL SPLIT SAMPLE - 3 — Lab Sample ID: 280-74946-3

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Ammonia as N | 30 | | 1.0 | | mg/L | 10 | | 350.1 | Total/NA |
| Nitrogen, Kjeldahl | 38 | | 10 | | mg/L | 10 | | 351.2 | Total/NA |

## Client Sample ID: SITE OUTFALL SPLIT SAMPLE - 4 — Lab Sample ID: 280-74946-4

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Total Suspended Solids | 7.2 | | 4.0 | | mg/L | 1 | | SM 2540D | Total/NA |

This Detection Summary does not include radiochemical test results.

# Method Summary

Client: Intel Corporation
Project/Site: Outfall Split Sampling

TestAmerica Job ID: 280-74946-1

| Method | Method Description | Protocol | Laboratory |
|---|---|---|---|
| 200.7 Rev 4.4 | Metals (ICP) | EPA | TAL DEN |
| 200.8 | Metals (ICP/MS) | EPA | TAL DEN |
| 350.1 | Nitrogen, Ammonia | MCAWW | TAL DEN |
| 351.2 | Nitrogen, Total Kjeldahl (Colorimetric, Semi-Automated Block Digester, AAII) | MCAWW | TAL DEN |
| 410.4 | COD | MCAWW | TAL DEN |
| SM 2540D | Solids, Total Suspended (TSS) | SM | TAL DEN |

**Protocol References:**

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater",

**Laboratory References:**

TAL DEN = TestAmerica Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

# Sample Summary

Client: Intel Corporation
Project/Site: Outfall Split Sampling

TestAmerica Job ID: 280-74946-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---|---|---|---|---|
| 280-74946-1 | SITE OUTFALL SPLIT SAMPLE - 1 | Water | 10/02/15 10:00 | 10/03/15 10:00 |
| 280-74946-2 | SITE OUTFALL SPLIT SAMPLE - 2 | Water | 10/02/15 10:00 | 10/03/15 10:00 |
| 280-74946-3 | SITE OUTFALL SPLIT SAMPLE - 3 | Water | 10/02/15 10:00 | 10/03/15 10:00 |
| 280-74946-4 | SITE OUTFALL SPLIT SAMPLE - 4 | Water | 10/02/15 10:00 | 10/03/15 10:00 |

Client: Intel Corporation
Project/Site: Outfall Split Sampling

TestAmerica Job ID: 280-74946-1

## Method: 200.7 Rev 4.4 - Metals (ICP)

**Client Sample ID: SITE OUTFALL SPLIT SAMPLE - 1**
**Date Collected: 10/02/15 10:00**
**Date Received: 10/03/15 10:00**

**Lab Sample ID: 280-74946-1**
**Matrix: Water**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Aluminum** | **140** | | 100 | | ug/L | | 10/07/15 14:30 | 10/13/15 03:33 | 1 |
| **Boron** | **120** | | 100 | | ug/L | | 10/07/15 14:30 | 10/13/15 03:33 | 1 |

## Method: 200.8 - Metals (ICP/MS)

**Client Sample ID: SITE OUTFALL SPLIT SAMPLE - 1**
**Date Collected: 10/02/15 10:00**
**Date Received: 10/03/15 10:00**

**Lab Sample ID: 280-74946-1**
**Matrix: Water**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **9.0** | | 5.0 | | ug/L | | 10/07/15 14:30 | 10/08/15 05:48 | 1 |
| Cadmium | ND | | 1.0 | | ug/L | | 10/07/15 14:30 | 10/08/15 05:48 | 1 |
| Chromium | ND | | 3.0 | | ug/L | | 10/07/15 14:30 | 10/08/15 05:48 | 1 |
| **Copper** | **71** | | 2.0 | | ug/L | | 10/07/15 14:30 | 10/08/15 05:48 | 1 |
| Lead | ND | | 1.0 | | ug/L | | 10/07/15 14:30 | 10/08/15 05:48 | 1 |
| **Molybdenum** | **8.3** | | 2.0 | | ug/L | | 10/07/15 14:30 | 10/08/15 05:48 | 1 |
| Nickel | ND | | 2.0 | | ug/L | | 10/07/15 14:30 | 10/08/15 05:48 | 1 |
| Selenium | ND | | 5.0 | | ug/L | | 10/07/15 14:30 | 10/08/15 05:48 | 1 |
| Silver | ND | | 1.0 | | ug/L | | 10/07/15 14:30 | 10/08/15 05:48 | 1 |
| Zinc | ND | | 10 | | ug/L | | 10/07/15 14:30 | 10/08/15 05:48 | 1 |

## General Chemistry

**Client Sample ID: SITE OUTFALL SPLIT SAMPLE - 2**
**Date Collected: 10/02/15 10:00**
**Date Received: 10/03/15 10:00**

**Lab Sample ID: 280-74946-2**
**Matrix: Water**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chemical Oxygen Demand** | **170** | | 40 | | mg/L | | | 10/05/15 09:10 | 2 |

**Client Sample ID: SITE OUTFALL SPLIT SAMPLE - 3**
**Date Collected: 10/02/15 10:00**
**Date Received: 10/03/15 10:00**

**Lab Sample ID: 280-74946-3**
**Matrix: Water**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Ammonia as N** | **30** | | 1.0 | | mg/L | | | 10/08/15 17:53 | 10 |
| **Nitrogen, Kjeldahl** | **38** | | 10 | | mg/L | | 10/17/15 15:44 | 10/18/15 18:05 | 10 |

**Client Sample ID: SITE OUTFALL SPLIT SAMPLE - 4**
**Date Collected: 10/02/15 10:00**
**Date Received: 10/03/15 10:00**

**Lab Sample ID: 280-74946-4**
**Matrix: Water**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Total Suspended Solids** | **7.2** | | 4.0 | | mg/L | | | 10/06/15 12:25 | 1 |

## Method: 200.7 Rev 4.4 - Metals (ICP)

**Lab Sample ID: MB 280-298211/1-A**
**Matrix: Water**
**Analysis Batch: 299038**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 298211**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Aluminum | ND | | 100 | | ug/L | | 10/07/15 14:30 | 10/13/15 03:28 | 1 |
| Boron | ND | | 100 | | ug/L | | 10/07/15 14:30 | 10/13/15 03:28 | 1 |

**Lab Sample ID: LCS 280-298211/2-A**
**Matrix: Water**
**Analysis Batch: 299038**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 298211**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Aluminum | 2000 | 1890 | | ug/L | | 95 | 87 - 111 |
| Boron | 1000 | 989 | | ug/L | | 99 | 86 - 110 |

## Method: 200.8 - Metals (ICP/MS)

**Lab Sample ID: MB 280-298214/1-A**
**Matrix: Water**
**Analysis Batch: 298370**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 298214**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | ND | | 5.0 | | ug/L | | 10/07/15 14:30 | 10/08/15 05:41 | 1 |
| Cadmium | ND | | 1.0 | | ug/L | | 10/07/15 14:30 | 10/08/15 05:41 | 1 |
| Chromium | ND | | 3.0 | | ug/L | | 10/07/15 14:30 | 10/08/15 05:41 | 1 |
| Copper | ND | | 2.0 | | ug/L | | 10/07/15 14:30 | 10/08/15 05:41 | 1 |
| Lead | ND | | 1.0 | | ug/L | | 10/07/15 14:30 | 10/08/15 05:41 | 1 |
| Molybdenum | ND | | 2.0 | | ug/L | | 10/07/15 14:30 | 10/08/15 05:41 | 1 |
| Nickel | ND | | 2.0 | | ug/L | | 10/07/15 14:30 | 10/08/15 05:41 | 1 |
| Selenium | ND | | 5.0 | | ug/L | | 10/07/15 14:30 | 10/08/15 05:41 | 1 |
| Silver | ND | | 1.0 | | ug/L | | 10/07/15 14:30 | 10/08/15 05:41 | 1 |
| Zinc | ND | | 10 | | ug/L | | 10/07/15 14:30 | 10/08/15 05:41 | 1 |

**Lab Sample ID: LCS 280-298214/2-A**
**Matrix: Water**
**Analysis Batch: 298370**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 298214**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Arsenic | 40.0 | 38.2 | | ug/L | | 95 | 89 - 111 |
| Cadmium | 40.0 | 36.6 | | ug/L | | 91 | 89 - 111 |
| Chromium | 40.0 | 38.4 | | ug/L | | 96 | 86 - 115 |
| Copper | 40.0 | 38.7 | | ug/L | | 97 | 90 - 115 |
| Lead | 40.0 | 39.0 | | ug/L | | 98 | 88 - 115 |
| Molybdenum | 40.0 | 38.1 | | ug/L | | 95 | 89 - 112 |
| Nickel | 40.0 | 40.3 | | ug/L | | 101 | 86 - 115 |
| Selenium | 40.0 | 36.8 | | ug/L | | 92 | 85 - 114 |
| Silver | 40.0 | 38.1 | | ug/L | | 95 | 90 - 114 |
| Zinc | 40.0 | 40.8 | | ug/L | | 102 | 88 - 115 |

## Method: 200.8 - Metals (ICP/MS) (Continued)

**Lab Sample ID: 280-74946-1 MS**
**Matrix: Water**
**Analysis Batch: 298370**

**Client Sample ID: SITE OUTFALL SPLIT SAMPLE - 1**
**Prep Type: Total/NA**
**Prep Batch: 298214**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 9.0 | | 40.0 | 47.8 | | ug/L | | 97 | 79 - 120 |
| Cadmium | ND | | 40.0 | 37.3 | | ug/L | | 93 | 89 - 111 |
| Chromium | ND | | 40.0 | 40.9 | | ug/L | | 96 | 86 - 115 |
| Copper | 71 | | 40.0 | 111 | | ug/L | | 101 | 90 - 115 |
| Lead | ND | | 40.0 | 39.0 | | ug/L | | 97 | 88 - 115 |
| Molybdenum | 8.3 | | 40.0 | 48.2 | | ug/L | | 100 | 89 - 112 |
| Nickel | ND | | 40.0 | 39.3 | | ug/L | | 94 | 86 - 115 |
| Selenium | ND | | 40.0 | 37.4 | | ug/L | | 94 | 85 - 114 |
| Silver | ND | | 40.0 | 38.1 | | ug/L | | 95 | 20 - 120 |
| Zinc | ND | | 40.0 | 48.9 | | ug/L | | 109 | 88 - 115 |

**Lab Sample ID: 280-74946-1 MSD**
**Matrix: Water**
**Analysis Batch: 298370**

**Client Sample ID: SITE OUTFALL SPLIT SAMPLE - 1**
**Prep Type: Total/NA**
**Prep Batch: 298214**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 9.0 | | 40.0 | 46.5 | | ug/L | | 94 | 79 - 120 | 3 | 20 |
| Cadmium | ND | | 40.0 | 37.4 | | ug/L | | 94 | 89 - 111 | 0 | 20 |
| Chromium | ND | | 40.0 | 40.6 | | ug/L | | 95 | 86 - 115 | 1 | 20 |
| Copper | 71 | | 40.0 | 110 | | ug/L | | 97 | 90 - 115 | 1 | 20 |
| Lead | ND | | 40.0 | 38.2 | | ug/L | | 96 | 88 - 115 | 2 | 20 |
| Molybdenum | 8.3 | | 40.0 | 48.6 | | ug/L | | 101 | 89 - 112 | 1 | 20 |
| Nickel | ND | | 40.0 | 41.0 | | ug/L | | 98 | 86 - 115 | 4 | 20 |
| Selenium | ND | | 40.0 | 36.9 | | ug/L | | 92 | 85 - 114 | 1 | 20 |
| Silver | ND | | 40.0 | 37.9 | | ug/L | | 95 | 20 - 120 | 1 | 20 |
| Zinc | ND | | 40.0 | 45.4 | | ug/L | | 100 | 88 - 115 | 7 | 20 |

## Method: 350.1 - Nitrogen, Ammonia

**Lab Sample ID: MB 280-298546/20**
**Matrix: Water**
**Analysis Batch: 298546**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Ammonia as N | ND | | 0.10 | | mg/L | | | 10/08/15 17:49 | 1 |

**Lab Sample ID: LCS 280-298546/18**
**Matrix: Water**
**Analysis Batch: 298546**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Ammonia as N | 2.50 | 2.55 | | mg/L | | 102 | 90 - 110 |

**Lab Sample ID: LCSD 280-298546/19**
**Matrix: Water**
**Analysis Batch: 298546**

**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 |
|---|---|---|---|---|---|---|---|---|---|
| Ammonia as N | 2.50 | 2.54 | | mg/L | | 102 | 90 - 110 | 1 | 10 |

Client: Intel Corporation
Project/Site: Outfall Split Sampling

TestAmerica Job ID: 280-74946-1

**Lab Sample ID: 280-74946-3 MS**
**Matrix: Water**
**Analysis Batch: 298546**

**Client Sample ID: SITE OUTFALL SPLIT SAMPLE - 3**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| Ammonia as N | 30 | | 10.0 | 41.2 | | mg/L | | 108 | 90 - 110 |

**Lab Sample ID: 280-74946-3 MSD**
**Matrix: Water**
**Analysis Batch: 298546**

**Client Sample ID: SITE OUTFALL SPLIT SAMPLE - 3**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Ammonia as N | 30 | | 10.0 | 41.1 | | mg/L | | 108 | 90 - 110 | 0 | 10 |

## Method: 351.2 - Nitrogen, Total Kjeldahl (Colorimetric, Semi-Automated Block Digester, AAII)

**Lab Sample ID: MB 280-299843/3-A**
**Matrix: Water**
**Analysis Batch: 299875**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 299843**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Nitrogen, Kjeldahl | ND | | 1.0 | | mg/L | | 10/17/15 15:44 | 10/18/15 17:29 | 1 |

**Lab Sample ID: LCS 280-299843/1-A**
**Matrix: Water**
**Analysis Batch: 299875**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 299843**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Nitrogen, Kjeldahl | 6.00 | 5.71 | | mg/L | | 95 | 90 - 110 |

**Lab Sample ID: LCSD 280-299843/2-A**
**Matrix: Water**
**Analysis Batch: 299875**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 299843**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Nitrogen, Kjeldahl | 6.00 | 5.59 | | mg/L | | 93 | 90 - 110 | 2 | 25 |

## Method: 410.4 - COD

**Lab Sample ID: MB 280-297853/5**
**Matrix: Water**
**Analysis Batch: 297853**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Chemical Oxygen Demand | ND | | 20 | | mg/L | | | 10/05/15 09:10 | 1 |

**Lab Sample ID: LCS 280-297853/3**
**Matrix: Water**
**Analysis Batch: 297853**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Chemical Oxygen Demand | 100 | 96.8 | | mg/L | | 97 | 90 - 110 |

## Method: 410.4 - COD (Continued)

**Lab Sample ID: LCSD 280-297853/4**
**Matrix: Water**
**Analysis Batch: 297853**

**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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chemical Oxygen Demand | | | 100 | 101 | | mg/L | | 101 | 90 - 110 | 4 | 11 |

**Lab Sample ID: 280-74946-2 MS**
**Matrix: Water**
**Analysis Batch: 297853**

**Client Sample ID: SITE OUTFALL SPLIT SAMPLE - 2**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| Chemical Oxygen Demand | 170 | | 100 | 273 | | mg/L | | 99 | 90 - 110 |

**Lab Sample ID: 280-74946-2 MSD**
**Matrix: Water**
**Analysis Batch: 297853**

**Client Sample ID: SITE OUTFALL SPLIT SAMPLE - 2**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chemical Oxygen Demand | 170 | | 100 | 273 | | mg/L | | 99 | 90 - 110 | 0 | 11 |

## Method: SM 2540D - Solids, Total Suspended (TSS)

**Lab Sample ID: MB 280-298080/1**
**Matrix: Water**
**Analysis Batch: 298080**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total Suspended Solids | ND | | 4.0 | | mg/L | | | 10/06/15 12:25 | 1 |

**Lab Sample ID: LCS 280-298080/2**
**Matrix: Water**
**Analysis Batch: 298080**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| Total Suspended Solids | | | 100 | 90.8 | | mg/L | | 91 | 86 - 114 |

**Lab Sample ID: LCSD 280-298080/3**
**Matrix: Water**
**Analysis Batch: 298080**

**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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Suspended Solids | | | 100 | 94.0 | | mg/L | | 94 | 86 - 114 | 3 | 20 |

## Metals

### Prep Batch: 298211

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 280-74946-1 | SITE OUTFALL SPLIT SAMPLE - 1 | Total/NA | Water | 200.7 | |
| LCS 280-298211/2-A | Lab Control Sample | Total/NA | Water | 200.7 | |
| MB 280-298211/1-A | Method Blank | Total/NA | Water | 200.7 | |

### Prep Batch: 298214

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 280-74946-1 | SITE OUTFALL SPLIT SAMPLE - 1 | Total/NA | Water | 200.8 | |
| 280-74946-1 MS | SITE OUTFALL SPLIT SAMPLE - 1 | Total/NA | Water | 200.8 | |
| 280-74946-1 MSD | SITE OUTFALL SPLIT SAMPLE - 1 | Total/NA | Water | 200.8 | |
| LCS 280-298214/2-A | Lab Control Sample | Total/NA | Water | 200.8 | |
| MB 280-298214/1-A | Method Blank | Total/NA | Water | 200.8 | |

### Analysis Batch: 298370

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 280-74946-1 | SITE OUTFALL SPLIT SAMPLE - 1 | Total/NA | Water | 200.8 | 298214 |
| 280-74946-1 MS | SITE OUTFALL SPLIT SAMPLE - 1 | Total/NA | Water | 200.8 | 298214 |
| 280-74946-1 MSD | SITE OUTFALL SPLIT SAMPLE - 1 | Total/NA | Water | 200.8 | 298214 |
| LCS 280-298214/2-A | Lab Control Sample | Total/NA | Water | 200.8 | 298214 |
| MB 280-298214/1-A | Method Blank | Total/NA | Water | 200.8 | 298214 |

### Analysis Batch: 299038

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 280-74946-1 | SITE OUTFALL SPLIT SAMPLE - 1 | Total/NA | Water | 200.7 Rev 4.4 | 298211 |
| LCS 280-298211/2-A | Lab Control Sample | Total/NA | Water | 200.7 Rev 4.4 | 298211 |
| MB 280-298211/1-A | Method Blank | Total/NA | Water | 200.7 Rev 4.4 | 298211 |

## General Chemistry

### Analysis Batch: 297853

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 280-74946-2 | SITE OUTFALL SPLIT SAMPLE - 2 | Total/NA | Water | 410.4 | |
| 280-74946-2 MS | SITE OUTFALL SPLIT SAMPLE - 2 | Total/NA | Water | 410.4 | |
| 280-74946-2 MSD | SITE OUTFALL SPLIT SAMPLE - 2 | Total/NA | Water | 410.4 | |
| LCS 280-297853/3 | Lab Control Sample | Total/NA | Water | 410.4 | |
| LCSD 280-297853/4 | Lab Control Sample Dup | Total/NA | Water | 410.4 | |
| MB 280-297853/5 | Method Blank | Total/NA | Water | 410.4 | |

### Analysis Batch: 298080

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 280-74946-4 | SITE OUTFALL SPLIT SAMPLE - 4 | Total/NA | Water | SM 2540D | |
| LCS 280-298080/2 | Lab Control Sample | Total/NA | Water | SM 2540D | |
| LCSD 280-298080/3 | Lab Control Sample Dup | Total/NA | Water | SM 2540D | |
| MB 280-298080/1 | Method Blank | Total/NA | Water | SM 2540D | |

### Analysis Batch: 298546

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 280-74946-3 | SITE OUTFALL SPLIT SAMPLE - 3 | Total/NA | Water | 350.1 | |
| 280-74946-3 MS | SITE OUTFALL SPLIT SAMPLE - 3 | Total/NA | Water | 350.1 | |
| 280-74946-3 MSD | SITE OUTFALL SPLIT SAMPLE - 3 | Total/NA | Water | 350.1 | |
| LCS 280-298546/18 | Lab Control Sample | Total/NA | Water | 350.1 | |

## General Chemistry (Continued)

### Analysis Batch: 298546 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| LCSD 280-298546/19 | Lab Control Sample Dup | Total/NA | Water | 350.1 | |
| MB 280-298546/20 | Method Blank | Total/NA | Water | 350.1 | |

### Prep Batch: 299843

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 280-74946-3 | SITE OUTFALL SPLIT SAMPLE - 3 | Total/NA | Water | 351.2 | |
| LCS 280-299843/1-A | Lab Control Sample | Total/NA | Water | 351.2 | |
| LCSD 280-299843/2-A | Lab Control Sample Dup | Total/NA | Water | 351.2 | |
| MB 280-299843/3-A | Method Blank | Total/NA | Water | 351.2 | |

### Analysis Batch: 299875

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 280-74946-3 | SITE OUTFALL SPLIT SAMPLE - 3 | Total/NA | Water | 351.2 | 299843 |
| LCS 280-299843/1-A | Lab Control Sample | Total/NA | Water | 351.2 | 299843 |
| LCSD 280-299843/2-A | Lab Control Sample Dup | Total/NA | Water | 351.2 | 299843 |
| MB 280-299843/3-A | Method Blank | Total/NA | Water | 351.2 | 299843 |

# Lab Chronicle

Client: Intel Corporation
Project/Site: Outfall Split Sampling

TestAmerica Job ID: 280-74946-1

## Client Sample ID: SITE OUTFALL SPLIT SAMPLE - 1

**Lab Sample ID: 280-74946-1**
**Matrix: Water**
**Date Collected: 10/02/15 10:00**
**Date Received: 10/03/15 10:00**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 200.7 | | | 50 mL | 50 mL | 298211 | 10/07/15 14:30 | MLS | TAL DEN |
| Total/NA | Analysis | 200.7 Rev 4.4 | | 1 | 50 mL | 50 mL | 299038 | 10/13/15 03:33 | CRR | TAL DEN |
| Total/NA | Prep | 200.8 | | | 50 mL | 50 mL | 298214 | 10/07/15 14:30 | MLS | TAL DEN |
| Total/NA | Analysis | 200.8 | | 1 | 50 mL | 50 mL | 298370 | 10/08/15 05:48 | LMT | TAL DEN |

## Client Sample ID: SITE OUTFALL SPLIT SAMPLE - 2

**Lab Sample ID: 280-74946-2**
**Matrix: Water**
**Date Collected: 10/02/15 10:00**
**Date Received: 10/03/15 10:00**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 410.4 | | 2 | 2 mL | 2 mL | 297853 | 10/05/15 09:10 | CCJ | TAL DEN |

## Client Sample ID: SITE OUTFALL SPLIT SAMPLE - 3

**Lab Sample ID: 280-74946-3**
**Matrix: Water**
**Date Collected: 10/02/15 10:00**
**Date Received: 10/03/15 10:00**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 350.1 | | 10 | | | 298546 | 10/08/15 17:53 | CML | TAL DEN |
| Total/NA | Prep | 351.2 | | | 25 mL | 25 mL | 299843 | 10/17/15 15:44 | MW1 | TAL DEN |
| Total/NA | Analysis | 351.2 | | 10 | 25 mL | 25 mL | 299875 | 10/18/15 18:05 | MW1 | TAL DEN |

## Client Sample ID: SITE OUTFALL SPLIT SAMPLE - 4

**Lab Sample ID: 280-74946-4**
**Matrix: Water**
**Date Collected: 10/02/15 10:00**
**Date Received: 10/03/15 10:00**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | SM 2540D | | 1 | 250 mL | 250 mL | 298080 | 10/06/15 12:25 | CML | TAL DEN |

**Laboratory References:**

TAL DEN = TestAmerica Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

# Certification Summary

Client: Intel Corporation
Project/Site: Outfall Split Sampling

TestAmerica Job ID: 280-74946-1

## Laboratory: TestAmerica Denver

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

| Authority | Program | EPA Region | Certification ID | Expiration Date |
|---|---|---|---|---|
| A2LA | DoD ELAP | | 2907.01 | 10-31-15 * |
| A2LA | ISO/IEC 17025 | | 2907.01 | 10-31-15 |
| Alabama | State Program | 4 | 40730 | 09-30-12 * |
| Alaska (UST) | State Program | 10 | UST-30 | 04-05-16 |
| Arizona | State Program | 9 | AZ0713 | 12-19-15 * |
| Arkansas DEQ | State Program | 6 | 88-0687 | 06-01-16 |
| California | State Program | 9 | 2513 | 08-31-16 |
| Connecticut | State Program | 1 | PH-0686 | 09-30-16 |
| Florida | NELAP | 4 | E87667 | 06-30-16 |
| Georgia | State Program | 4 | N/A | 01-09-15 * |
| Illinois | NELAP | 5 | 200017 | 04-30-16 |
| Iowa | State Program | 7 | 370 | 11-30-16 |
| Kansas | NELAP | 7 | E-10166 | 04-30-16 |
| Louisiana | NELAP | 6 | 02096 | 06-30-16 |
| Maine | State Program | 1 | CO0002 | 03-03-17 |
| Minnesota | NELAP | 5 | 8-999-405 | 12-31-15 |
| Nevada | State Program | 9 | CO0026 | 07-31-16 |
| New Hampshire | NELAP | 1 | 205310 | 04-28-16 |
| New Jersey | NELAP | 2 | CO004 | 10-30-15 |
| New York | NELAP | 2 | 11964 | 04-01-16 |
| North Carolina (WW/SW) | State Program | 4 | 358 | 12-31-15 |
| North Dakota | State Program | 8 | R-034 | 01-09-16 |
| Oklahoma | State Program | 6 | 8614 | 08-31-16 |
| Oregon | NELAP | 10 | 4025 | 01-09-16 |
| Pennsylvania | NELAP | 3 | 68-00664 | 07-31-16 |
| South Carolina | State Program | 4 | 72002001 | 01-09-16 |
| Texas | NELAP | 6 | T104704183-15-11 | 09-30-16 |
| USDA | Federal | | P330-13-00202 | 07-02-16 |
| Utah | NELAP | 8 | CO00026 | 07-31-16 |
| Virginia | NELAP | 3 | 460232 | 06-14-16 |
| Washington | State Program | 10 | C583 | 08-03-16 |
| West Virginia DEP | State Program | 3 | 354 | 11-30-15 |
| Wisconsin | State Program | 5 | 999615430 | 08-31-16 |
| Wyoming (UST) | A2LA | 8 | 2907.01 | 10-31-15 |

* Certification renewal pending - certification considered valid.

**TestAmerica Denver**
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Fax (303) 431-7171

# Chain of Custody Record

280-74946 Chain of Custody

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

OC No:

| Client Information | Sampler: ABCWUA | Lab PM: Kupper, Stephanie K | |
|---|---|---|---|
| Client Contact: Jeff Rudnik | Phone: 505-893-1613 | E-Mail: stephanie.kupper@testamericainc.com | Page: Page 1 of 1 |
| Company: Intel Corporation | | | Job #: |
| Address: 4100 Sara Road Mail Stop RR5-465 | Due Date Requested: | | |
| City: Rio Rancho | TAT Requested (days): | | |
| State, Zip: NM, 87124 | | | |
| Phone: 505-893-1613(Tel) | PO #: Pay by Credit Card | | |
| Email: jeffrey.rudnik@intel.com | WO #: | | |
| Project Name: Monthly WUA Split Sampling | Project #: 28013471 | | |
| Site: | SSOW#: | | |

**Analysis Requested**

**Preservation Codes:**

A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchior
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDA
M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2SO3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - ph 4-5
Z - other (specify)

Other:

| Sample Identification | Sample Date | Sample Time | Sample Type (C=comp, G=grab) | Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air) | Field Filtered Sample (Yes or No) | Perform MS/MSD (Yes or No) | Metals (EPA 200.8) | COD (EPA 410.4) | TKN/Ammonia (EPA 351.3) | TSS (EPA 160.2) | Total Number of containers | Special Instructions/Note: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Preservation Code: | | | | | | | | | |
| Site Outfall Split Sample-1 | 10/2/15 | 1000 | C | W | | | X | | | | | |
| Site Outfall Split Sample-2 | 10/2/15 | 1000 | C | W | | | | X | | | | |
| Site Outfall Split Sample-3 | 10/2/15 | 1000 | C | W | | | | | X | | | |
| Site Outfall Split Sample-4 | 10/2/15 | 1000 | C | W | | | | | | X | | |

***Possible Hazard Identification***
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

***Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)***
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

| Empty Kit Relinquished by: | Date: | Time: | Method of Shipment: |
|---|---|---|---|

| | Relinquished by: | Date/Time: | Company | Received by: | Date/Time: | Company |
|---|---|---|---|---|---|---|
| 1 | [signature] | 10/2/15 1130 | | [signature] | 10/3/15 1000 | TAL |
| 2 | Relinquished by: | Date/Time: | Company | Received by: | Date/Time: | Company |
| 3 | Relinquished by: | Date/Time: | Company | Received by: | Date/Time: | Company |

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 3.1+0.1 IR#5 DW 10/3/15

# Login Sample Receipt Checklist

Client: Intel Corporation

Job Number: 280-74946-1

**Login Number: 74946**
**List Number: 1**
**Creator: White, Denise E**

**List Source: TestAmerica Denver**

| Question | Answer | Comment |
|---|---|---|
| Radioactivity wasn't checked or is </= 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? | True | |
| There are no discrepancies between the containers received and the COC. | True | |
| Samples are received within Holding Time. | 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 <6mm (1/4"). | N/A | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

# ANALYTICAL REPORT

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

TestAmerica Job ID: 280-76537-1
Client Project/Site: Monthly WUA Split Sampling

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

Attn: Jeff Rudnik

*Authorized for release by:*
*11/20/2015 9:39:25 AM*
Stephanie Kupper, Project Manager I
(303)736-0182
stephanie.kupper@testamericainc.com

Designee for

DiLea Bindel, Project Manager I
(303)736-0173
dilea.bindel@testamericainc.com

# Table of Contents

# Definitions/Glossary

Client: Intel Corporation
Project/Site: Monthly WUA Split Sampling

TestAmerica Job ID: 280-76537-1

## 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, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC | Decision level concentration |
| MDA | Minimum detectable activity |
| EDL | Estimated Detection Limit |
| MDC | Minimum detectable concentration |
| MDL | Method Detection Limit |
| ML | Minimum Level (Dioxin) |
| 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 |
| 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) |

## Job ID: 280-76537-1

**Laboratory: TestAmerica Denver**

**Narrative**

# CASE NARRATIVE
# Client: Intel Corporation
# Project: Monthly WUA Split Sampling
# Report Number: 280-76537-1

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 sample was received on 11/6/2015 at 9:30 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 0.2º C.

**GENERAL CHEMISTRY**

Due to elevated concentrations, sample SITE OUTFALL SPLIT SAMPLE (280-76537-1)[10X] required dilution prior to analysis for Ammonia. The reporting limits have been adjusted accordingly.

Due to elevated concentrations, sample SITE OUTFALL SPLIT SAMPLE (280-76537-1)[5X] required dilution prior to analysis for TKN. The reporting limits have been adjusted accordingly.

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

# Detection Summary

Client: Intel Corporation
Project/Site: Monthly WUA Split Sampling

TestAmerica Job ID: 280-76537-1

## Client Sample ID: SITE OUTFALL SPLIT SAMPLE — Lab Sample ID: 280-76537-1

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Ammonia as N | 19 | | 1.0 | | mg/L | 10 | | 350.1 | Total/NA |
| Nitrogen, Kjeldahl | 27 | | 5.0 | | mg/L | 5 | | 351.2 | Total/NA |

This Detection Summary does not include radiochemical test results.

# Method Summary

Client: Intel Corporation
Project/Site: Monthly WUA Split Sampling

TestAmerica Job ID: 280-76537-1

| Method | Method Description | Protocol | Laboratory |
|---|---|---|---|
| 350.1 | Nitrogen, Ammonia | MCAWW | TAL DEN |
| 351.2 | Nitrogen, Total Kjeldahl (Colorimetric, Semi-Automated Block Digester, AAII) | MCAWW | TAL DEN |

**Protocol References:**

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

**Laboratory References:**

TAL DEN = TestAmerica Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

# Sample Summary

Client: Intel Corporation
Project/Site: Monthly WUA Split Sampling

TestAmerica Job ID: 280-76537-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---|---|---|---|---|
| 280-76537-1 | SITE OUTFALL SPLIT SAMPLE | Water | 11/05/15 10:00 | 11/06/15 09:30 |

Client: Intel Corporation
Project/Site: Monthly WUA Split Sampling

TestAmerica Job ID: 280-76537-1

## General Chemistry

**Client Sample ID: SITE OUTFALL SPLIT SAMPLE**
**Date Collected: 11/05/15 10:00**
**Date Received: 11/06/15 09:30**

**Lab Sample ID: 280-76537-1**
**Matrix: Water**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Ammonia as N | 19 | | 1.0 | | mg/L | | | 11/09/15 16:21 | 10 |
| Nitrogen, Kjeldahl | 27 | | 5.0 | | mg/L | | 11/10/15 21:15 | 11/13/15 22:21 | 5 |

## Method: 350.1 - Nitrogen, Ammonia

**Lab Sample ID: MB 280-303257/20**
**Matrix: Water**
**Analysis Batch: 303257**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Ammonia as N | ND | | 0.10 | | mg/L | | | 11/09/15 16:03 | 1 |

**Lab Sample ID: LCS 280-303257/18**
**Matrix: Water**
**Analysis Batch: 303257**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Ammonia as N | | | 2.50 | 2.48 | | mg/L | | 99 | 90 - 110 | | |

**Lab Sample ID: LCSD 280-303257/19**
**Matrix: Water**
**Analysis Batch: 303257**

**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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Ammonia as N | | | 2.50 | 2.46 | | mg/L | | 98 | 90 - 110 | 1 | 10 |

## Method: 351.2 - Nitrogen, Total Kjeldahl (Colorimetric, Semi-Automated Block Digester, AAII)

**Lab Sample ID: MB 280-303462/3-A**
**Matrix: Water**
**Analysis Batch: 304108**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 303462**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Nitrogen, Kjeldahl | ND | | 1.0 | | mg/L | | 11/10/15 21:15 | 11/13/15 21:41 | 1 |

**Lab Sample ID: LCS 280-303462/1-A**
**Matrix: Water**
**Analysis Batch: 304108**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 303462**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Nitrogen, Kjeldahl | | | 6.00 | 5.88 | | mg/L | | 98 | 90 - 110 | | |

**Lab Sample ID: LCSD 280-303462/2-A**
**Matrix: Water**
**Analysis Batch: 304108**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 303462**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Nitrogen, Kjeldahl | | | 6.00 | 5.90 | | mg/L | | 98 | 90 - 110 | 0 | 25 |

# QC Association Summary

Client: Intel Corporation
Project/Site: Monthly WUA Split Sampling

TestAmerica Job ID: 280-76537-1

## General Chemistry

### Analysis Batch: 303257

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 280-76537-1 | SITE OUTFALL SPLIT SAMPLE | Total/NA | Water | 350.1 | |
| LCS 280-303257/18 | Lab Control Sample | Total/NA | Water | 350.1 | |
| LCSD 280-303257/19 | Lab Control Sample Dup | Total/NA | Water | 350.1 | |
| MB 280-303257/20 | Method Blank | Total/NA | Water | 350.1 | |

### Prep Batch: 303462

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 280-76537-1 | SITE OUTFALL SPLIT SAMPLE | Total/NA | Water | 351.2 | |
| LCS 280-303462/1-A | Lab Control Sample | Total/NA | Water | 351.2 | |
| LCSD 280-303462/2-A | Lab Control Sample Dup | Total/NA | Water | 351.2 | |
| MB 280-303462/3-A | Method Blank | Total/NA | Water | 351.2 | |

### Analysis Batch: 304108

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 280-76537-1 | SITE OUTFALL SPLIT SAMPLE | Total/NA | Water | 351.2 | 303462 |
| LCS 280-303462/1-A | Lab Control Sample | Total/NA | Water | 351.2 | 303462 |
| LCSD 280-303462/2-A | Lab Control Sample Dup | Total/NA | Water | 351.2 | 303462 |
| MB 280-303462/3-A | Method Blank | Total/NA | Water | 351.2 | 303462 |

# Lab Chronicle

Client: Intel Corporation
Project/Site: Monthly WUA Split Sampling

TestAmerica Job ID: 280-76537-1

**Client Sample ID: SITE OUTFALL SPLIT SAMPLE** — **Lab Sample ID: 280-76537-1**
**Date Collected: 11/05/15 10:00** — **Matrix: Water**
**Date Received: 11/06/15 09:30**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 350.1 | | 10 | | | 303257 | 11/09/15 16:21 | KAM | TAL DEN |
| Total/NA | Prep | 351.2 | | | 25 mL | 25 mL | 303462 | 11/10/15 21:15 | MW1 | TAL DEN |
| Total/NA | Analysis | 351.2 | | 5 | 25 mL | 25 mL | 304108 | 11/13/15 22:21 | MW1 | TAL DEN |

**Laboratory References:**

TAL DEN = TestAmerica Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

# Certification Summary

Client: Intel Corporation
Project/Site: Monthly WUA Split Sampling

TestAmerica Job ID: 280-76537-1

## Laboratory: TestAmerica Denver

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

| Authority | Program | EPA Region | Certification ID | Expiration Date |
|---|---|---|---|---|
| A2LA | DoD ELAP | | 2907.01 | 11-30-15 * |
| A2LA | ISO/IEC 17025 | | 2907.01 | 11-30-15 |
| Alabama | State Program | 4 | 40730 | 09-30-12 * |
| Alaska (UST) | State Program | 10 | UST-30 | 04-05-16 |
| Arizona | State Program | 9 | AZ0713 | 12-19-16 |
| Arkansas DEQ | State Program | 6 | 88-0687 | 06-01-16 |
| California | State Program | 9 | 2513 | 08-31-16 |
| Connecticut | State Program | 1 | PH-0686 | 09-30-16 |
| Florida | NELAP | 4 | E87667 | 06-30-16 |
| Georgia | State Program | 4 | N/A | 01-09-16 |
| Illinois | NELAP | 5 | 200017 | 04-30-16 |
| Iowa | State Program | 7 | 370 | 11-30-16 |
| Kansas | NELAP | 7 | E-10166 | 04-30-16 |
| Louisiana | NELAP | 6 | 02096 | 06-30-16 |
| Maine | State Program | 1 | CO0002 | 03-03-17 |
| Minnesota | NELAP | 5 | 8-999-405 | 12-31-15 |
| Nevada | State Program | 9 | CO0026 | 07-31-16 |
| New Hampshire | NELAP | 1 | 205310 | 04-28-16 |
| New Jersey | NELAP | 2 | CO004 | 11-30-15 * |
| New York | NELAP | 2 | 11964 | 04-01-16 |
| North Carolina (WW/SW) | State Program | 4 | 358 | 12-31-15 |
| North Dakota | State Program | 8 | R-034 | 01-09-16 |
| Oklahoma | State Program | 6 | 8614 | 08-31-16 |
| Oregon | NELAP | 10 | 4025 | 01-09-16 |
| Pennsylvania | NELAP | 3 | 68-00664 | 07-31-16 |
| South Carolina | State Program | 4 | 72002001 | 01-09-16 |
| Texas | NELAP | 6 | T104704183-15-11 | 09-30-16 |
| USDA | Federal | | P330-13-00202 | 07-02-16 |
| Utah | NELAP | 8 | CO00026 | 07-31-16 |
| Virginia | NELAP | 3 | 460232 | 06-14-16 |
| Washington | State Program | 10 | C583 | 08-03-16 |
| West Virginia DEP | State Program | 3 | 354 | 11-30-15 |
| Wisconsin | State Program | 5 | 999615430 | 08-31-16 |
| Wyoming (UST) | A2LA | 8 | 2907.01 | 11-30-15 |

* Certification renewal pending - certification considered valid.

**TestAmerica Denver**
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Fax (303) 431-7171

# Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

| Client Information | Sampler: ABCWUA | Lab PM: Kupper, Stephanie K | Carrier Tracking No(s): | COC No: 280-44204-16936.1 |
|---|---|---|---|---|
| Client Contact: Jeff Rudnik | Phone: 505-893-1613 | E-Mail: stephanie.kupper@testamericainc.com | | Page: Page 1 of 1 |
| Company: Intel Corporation | | | | Job #: |
| Address: 4100 Sara Road Mail Stop RR5-465 | Due Date Requested: | | | |
| City: Rio Rancho | TAT Requested (days): | | | |
| State, Zip: NM, 87124 | | | | |
| Phone: 505-893-1613(Tel) | PO #: Pay by Credit Card | | | |
| Email: jeffrey.rudnik@intel.com | WO #: | | | |
| Project Name: Monthly WUA Split Sampling | Project #: 28013471 | | | |
| Site: | SSOW#: | | | |

**Analysis Requested**

280-76537 Chain of Custody

**Preservation Codes:**

A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDA
M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2SO3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - ph 4-5
Z - other (specify)

Other:

| Sample Identification | Sample Date | Sample Time | Sample Type (C=Comp, G=grab) | Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air) | Field Filtered Sample (Yes or No) | Perform MS/MSD (Yes or No) | 4500_CN_E - Cyanide, Total | TKN/Ammonia (EPA 351.3) | Total Number of cont | Special Instructions/Note: |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Preservation Code: | | | | B | | | |
| Site Outfall Split Sample | 11/5/15 | 1000 | C | Water | | | | X | | |
| | | | | Water | | | | | | |
| | | | | Water | | | | | | |
| | | | | Water | | | | | | |
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| | | | | | | | | | | |

**Possible Hazard Identification**
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

**Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)**
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

| Empty Kit Relinquished by: | Date: | Time: | Method of Shipment: |
|---|---|---|---|

| Relinquished by: | Date/Time: | Company | Received by: | Date/Time: | Company |
|---|---|---|---|---|---|
| | 11/5/15 1030 | Intel | | 6 Nov 15 0920 | TA |
| Relinquished by: | Date/Time: | Company | Received by: | Date/Time: | Company |
| Relinquished by: | Date/Time: | Company | Received by: | Date/Time: | Company |

| Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 0.2+0.0 IR#7 11/7/15 JT |
|---|---|---|

# Login Sample Receipt Checklist

Client: Intel Corporation

Job Number: 280-76537-1

**Login Number: 76537**
**List Number: 1**
**Creator: True, Joshua A**

**List Source: TestAmerica Denver**

| Question | Answer | Comment |
|---|---|---|
| Radioactivity wasn't checked or is </= 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? | True | |
| There are no discrepancies between the containers received and the COC. | True | |
| Samples are received within Holding Time. | 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 <6mm (1/4"). | N/A | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

# ANALYTICAL REPORT

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

TestAmerica Job ID: 280-77567-1
Client Project/Site: Monthly WUA Split Sampling

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

Attn: Jeff Rudnik

*Authorized for release by:*
*12/15/2015 2:26:15 PM*

DiLea Bindel, Project Manager I
(303)736-0173
dilea.bindel@testamericainc.com

# Table of Contents

## 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, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC | Decision level concentration |
| MDA | Minimum detectable activity |
| EDL | Estimated Detection Limit |
| MDC | Minimum detectable concentration |
| MDL | Method Detection Limit |
| ML | Minimum Level (Dioxin) |
| 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 |
| 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) |

## Job ID: 280-77567-1

### Laboratory: TestAmerica Denver

**Narrative**

# CASE NARRATIVE
# Client: Intel Corporation
# Project: Monthly WUA Split Sampling
# Report Number: 280-77567-1

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 12/04/2015; the samples arrived in good condition, properly preserved and on ice. The temperature of the cooler at receipt was 0.1° C.

**GENERAL CHEMISTRY**

Due to high concentrations, sample SITE OUTFALL SPLIT SAMPLE (280-77567-1) required dilution prior to analysis for Ammonia. The reporting limits have been adjusted accordingly.

Due to high concentrations, sample SITE OUTFALL SPLIT SAMPLE (280-77567-1) required dilution prior to analysis for TKN. The reporting limits have been adjusted accordingly.

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

# Detection Summary

Client: Intel Corporation
Project/Site: Monthly WUA Split Sampling

TestAmerica Job ID: 280-77567-1

## Client Sample ID: SITE OUTFALL SPLIT SAMPLE — Lab Sample ID: 280-77567-1

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Ammonia as N | 13 | | 0.50 | | mg/L | 5 | | 350.1 | Total/NA |
| Nitrogen, Kjeldahl | 22 | | 5.0 | | mg/L | 5 | | 351.2 | Total/NA |

This Detection Summary does not include radiochemical test results.

# Method Summary

Client: Intel Corporation
Project/Site: Monthly WUA Split Sampling

TestAmerica Job ID: 280-77567-1

| Method | Method Description | Protocol | Laboratory |
|---|---|---|---|
| 350.1 | Nitrogen, Ammonia | MCAWW | TAL DEN |
| 351.2 | Nitrogen, Total Kjeldahl (Colorimetric, Semi-Automated Block Digester, AAII) | MCAWW | TAL DEN |

**Protocol References:**

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

**Laboratory References:**

TAL DEN = TestAmerica Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

# Sample Summary

Client: Intel Corporation
Project/Site: Monthly WUA Split Sampling

TestAmerica Job ID: 280-77567-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---|---|---|---|---|
| 280-77567-1 | SITE OUTFALL SPLIT SAMPLE | Water | 12/03/15 10:00 | 12/04/15 10:00 |

Client: Intel Corporation
Project/Site: Monthly WUA Split Sampling

TestAmerica Job ID: 280-77567-1

## General Chemistry

**Client Sample ID: SITE OUTFALL SPLIT SAMPLE**
**Date Collected: 12/03/15 10:00**
**Date Received: 12/04/15 10:00**

**Lab Sample ID: 280-77567-1**
**Matrix: Water**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Ammonia as N | 13 | | 0.50 | | mg/L | | | 12/09/15 18:32 | 5 |
| Nitrogen, Kjeldahl | 22 | | 5.0 | | mg/L | | 12/11/15 21:52 | 12/12/15 15:59 | 5 |

## Method: 350.1 - Nitrogen, Ammonia

**Lab Sample ID: MB 280-307201/61**
**Matrix: Water**
**Analysis Batch: 307201**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Ammonia as N | ND | | 0.10 | | mg/L | | | 12/09/15 16:46 | 1 |

**Lab Sample ID: LCS 280-307201/59**
**Matrix: Water**
**Analysis Batch: 307201**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Ammonia as N | 2.50 | 2.53 | | mg/L | | 101 | 90 - 110 |

**Lab Sample ID: LCSD 280-307201/60**
**Matrix: Water**
**Analysis Batch: 307201**

**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 |
|---|---|---|---|---|---|---|---|---|---|
| Ammonia as N | 2.50 | 2.50 | | mg/L | | 100 | 90 - 110 | 1 | 10 |

**Lab Sample ID: MB 280-307510/20**
**Matrix: Water**
**Analysis Batch: 307510**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Ammonia as N | ND | | 0.10 | | mg/L | | | 12/11/15 13:24 | 1 |

**Lab Sample ID: LCS 280-307510/18**
**Matrix: Water**
**Analysis Batch: 307510**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Ammonia as N | 2.50 | 2.49 | | mg/L | | 100 | 90 - 110 |

**Lab Sample ID: LCSD 280-307510/19**
**Matrix: Water**
**Analysis Batch: 307510**

**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 |
|---|---|---|---|---|---|---|---|---|---|
| Ammonia as N | 2.50 | 2.49 | | mg/L | | 100 | 90 - 110 | 0 | 10 |

## Method: 351.2 - Nitrogen, Total Kjeldahl (Colorimetric, Semi-Automated Block Digester, AAII)

**Lab Sample ID: MB 280-307535/3-A**
**Matrix: Water**
**Analysis Batch: 307569**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 307535**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Nitrogen, Kjeldahl | ND | | 1.0 | | mg/L | | 12/11/15 21:52 | 12/12/15 15:08 | 1 |

## Method: 351.2 - Nitrogen, Total Kjeldahl (Colorimetric, Semi-Automated Block Digester, AAII) (Continued)

**Lab Sample ID: LCS 280-307535/1-A**
**Matrix: Water**
**Analysis Batch: 307569**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 307535**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Nitrogen, Kjeldahl | 6.00 | 6.16 | | mg/L | | 103 | 90 - 110 |

**Lab Sample ID: LCSD 280-307535/2-A**
**Matrix: Water**
**Analysis Batch: 307569**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 307535**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Nitrogen, Kjeldahl | 6.00 | 6.16 | | mg/L | | 103 | 90 - 110 | 0 | 25 |

# QC Association Summary

Client: Intel Corporation
Project/Site: Monthly WUA Split Sampling

TestAmerica Job ID: 280-77567-1

## General Chemistry

### Analysis Batch: 307201

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 280-77567-1 | SITE OUTFALL SPLIT SAMPLE | Total/NA | Water | 350.1 | |
| LCS 280-307201/59 | Lab Control Sample | Total/NA | Water | 350.1 | |
| LCSD 280-307201/60 | Lab Control Sample Dup | Total/NA | Water | 350.1 | |
| MB 280-307201/61 | Method Blank | Total/NA | Water | 350.1 | |

### Analysis Batch: 307510

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| LCS 280-307510/18 | Lab Control Sample | Total/NA | Water | 350.1 | |
| LCSD 280-307510/19 | Lab Control Sample Dup | Total/NA | Water | 350.1 | |
| MB 280-307510/20 | Method Blank | Total/NA | Water | 350.1 | |

### Prep Batch: 307535

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 280-77567-1 | SITE OUTFALL SPLIT SAMPLE | Total/NA | Water | 351.2 | |
| LCS 280-307535/1-A | Lab Control Sample | Total/NA | Water | 351.2 | |
| LCSD 280-307535/2-A | Lab Control Sample Dup | Total/NA | Water | 351.2 | |
| MB 280-307535/3-A | Method Blank | Total/NA | Water | 351.2 | |

### Analysis Batch: 307569

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 280-77567-1 | SITE OUTFALL SPLIT SAMPLE | Total/NA | Water | 351.2 | 307535 |
| LCS 280-307535/1-A | Lab Control Sample | Total/NA | Water | 351.2 | 307535 |
| LCSD 280-307535/2-A | Lab Control Sample Dup | Total/NA | Water | 351.2 | 307535 |
| MB 280-307535/3-A | Method Blank | Total/NA | Water | 351.2 | 307535 |

# Lab Chronicle

Client: Intel Corporation
Project/Site: Monthly WUA Split Sampling

TestAmerica Job ID: 280-77567-1

**Client Sample ID: SITE OUTFALL SPLIT SAMPLE** — **Lab Sample ID: 280-77567-1**
**Date Collected: 12/03/15 10:00** — **Matrix: Water**
**Date Received: 12/04/15 10:00**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 350.1 | | 5 | | | 307201 | 12/09/15 18:32 | KAM | TAL DEN |
| Total/NA | Prep | 351.2 | | | 25 mL | 25 mL | 307535 | 12/11/15 21:52 | MW1 | TAL DEN |
| Total/NA | Analysis | 351.2 | | 5 | 25 mL | 25 mL | 307569 | 12/12/15 15:59 | MW1 | TAL DEN |

**Laboratory References:**

TAL DEN = TestAmerica Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

# Certification Summary

Client: Intel Corporation
Project/Site: Monthly WUA Split Sampling

TestAmerica Job ID: 280-77567-1

## Laboratory: TestAmerica Denver

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

| Authority | Program | EPA Region | Certification ID | Expiration Date |
|---|---|---|---|---|
| A2LA | DoD ELAP | | 2907.01 | 12-31-15 * |
| A2LA | ISO/IEC 17025 | | 2907.01 | 12-31-15 |
| Alabama | State Program | 4 | 40730 | 09-30-12 * |
| Alaska (UST) | State Program | 10 | UST-30 | 04-05-16 |
| Arizona | State Program | 9 | AZ0713 | 12-19-16 |
| Arkansas DEQ | State Program | 6 | 88-0687 | 06-01-16 |
| California | State Program | 9 | 2513 | 08-31-16 |
| Connecticut | State Program | 1 | PH-0686 | 09-30-16 |
| Florida | NELAP | 4 | E87667 | 06-30-16 |
| Georgia | State Program | 4 | N/A | 01-09-16 |
| Illinois | NELAP | 5 | 200017 | 04-30-16 |
| Iowa | State Program | 7 | 370 | 11-30-16 |
| Kansas | NELAP | 7 | E-10166 | 04-30-16 |
| Louisiana | NELAP | 6 | 02096 | 06-30-16 |
| Maine | State Program | 1 | CO0002 | 03-03-17 |
| Minnesota | NELAP | 5 | 8-999-405 | 12-31-15 |
| Nevada | State Program | 9 | CO0026 | 07-31-16 |
| New Hampshire | NELAP | 1 | 205310 | 04-28-16 |
| New Jersey | NELAP | 2 | CO004 | 06-30-16 |
| New York | NELAP | 2 | 11964 | 04-01-16 |
| North Carolina (WW/SW) | State Program | 4 | 358 | 12-31-16 |
| North Dakota | State Program | 8 | R-034 | 01-09-16 |
| Oklahoma | State Program | 6 | 8614 | 08-31-16 |
| Oregon | NELAP | 10 | 4025 | 01-09-16 |
| Pennsylvania | NELAP | 3 | 68-00664 | 07-31-16 |
| South Carolina | State Program | 4 | 72002001 | 01-09-16 |
| Texas | NELAP | 6 | T104704183-15-11 | 09-30-16 |
| USDA | Federal | | P330-13-00202 | 07-02-16 |
| Utah | NELAP | 8 | CO00026 | 07-31-16 |
| Virginia | NELAP | 3 | 460232 | 06-14-16 |
| Washington | State Program | 10 | C583 | 08-03-16 |
| West Virginia DEP | State Program | 3 | 354 | 11-30-16 |
| Wisconsin | State Program | 5 | 999615430 | 08-31-16 |
| Wyoming (UST) | A2LA | 8 | 2907.01 | 12-31-15 |

* Certification renewal pending - certification considered valid.

**TestAmerica Denver**
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Fax (303) 431-7171

# Chain of Custody Record

280-77567 Chain of Custody

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

| Client Information | Sampler: ABCWUA | Lab PM: Bindel, DiLea R | COC No: 280-46750-17651.1 |
|---|---|---|---|
| Client Contact: Jeff Rudnik | Phone: 505-893-1613 | E-Mail: dilea.bindel@testamericainc.com | Page: Page 1 of 1 |
| Company: Intel Corporation | | | Job #: |
| Address: 4100 Sara Road Mail Stop RR5-491 | Due Date Requested: | | |
| City: Rio Rancho | TAT Requested (days): | | |
| State, Zip: NM, 87124 | | | |
| Phone: 505-893-1613(Tel) | PO #: Pay by Credit Card | | |
| Email: jeffrey.rudnik@intel.com | WO #: | | |
| Project Name: Monthly WUA Split Sampling | Project #: 28013471 | | |
| Site: | SSOW#: | | |

**Analysis Requested**

**Preservation Codes:**

A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDA
M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2SO3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - ph 4-5
Z - other (specify)

Other:

| Sample Identification | Sample Date | Sample Time | Sample Type (C=comp, G=grab) | Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air) | Field Filtered Sample (Yes or No) | Perform MS/MSD (Yes or No) | 4500_CN_E - Cyanide, Total | 200.7 - Total Metals - Al, B | 200.8 - Total Metals - As,Cd,Cr,Cu,Pb,Mo,Ni,Se,Ag,Zn | 351.2 - Nitrogen, Kjeldahl | 350.1 - Ammonia as N | 2540D - Total Suspended Solids | 410.4 - Chemical Oxygen Demand | Total Number of Containers | Special Instructions/Note: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Preservation Code: | | | | B | D | D | S | S | N | S | | |
| Site Outfall Split Sample | 12/3/15 | 1000 | C | W | | | | | | X | X | | | | |

**Possible Hazard Identification**
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

**Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)**
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

| Empty Kit Relinquished by: | Date: | Time: | Method of Shipment: |
|---|---|---|---|

| Relinquished by: | Date/Time: | Company | Received by: | Date/Time: | Company |
|---|---|---|---|---|---|
| | 12/3/15 1110 | Intel | | 12/4/15 1000 | CHD |
| Relinquished by: | Date/Time: | Company | Received by: | Date/Time: | Company |
| Relinquished by: | Date/Time: | Company | Received by: | Date/Time: | Company |

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 0.1+0.0 IR#7 DW 12/4/15

Page 14 of 15

12/15/2015

# Login Sample Receipt Checklist

Client: Intel Corporation

Job Number: 280-77567-1

**Login Number: 77567**
**List Number: 1**
**Creator: White, Denise E**

**List Source: TestAmerica Denver**

| Question | Answer | Comment |
|---|---|---|
| Radioactivity wasn't checked or is </= 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? | True | |
| There are no discrepancies between the containers received and the COC. | True | |
| Samples are received within Holding Time. | 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 <6mm (1/4"). | N/A | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |

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**
44970

## WASTE PRODUCER

PRODUCER'S NAME: INTEK RR5 — PHONE: Mark Crafton 270 7410 — APPROX. GALLONS: 150 — DATE OF COLLECTION: 7/16/15

ADDRESS: 4100 Sara Rd

CITY: Rio Rancho — STATE: NM — ZIP:

WASTE TYPE:
- ☐ SAND OR GRIT
- ☒ GREASE
- ☐ OTHER - DESCRIBE:

RESPON. PERSON X: [signature] — DATE: / /

## WASTE TRANSPORTER

TRUCK DRIVER'S SIGNATURE X: [signature] — DATE: / / — PERMIT NO.

## DISPOSAL SITE DATE STAMP

675.00
TAX 48.52
753.52

## HAULER'S BILLING INFORMATION

Pump trap

INVOICE NUMBER: 23771 — INVOICE DATE: 7/16/15 — INVOICE AMOUNT: 753.52

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

DISPOSAL TRIP MANIFEST # 44970

RRS TRAP BY DISH/POT WASH

# Rio Rancho Grease Removal Device Report

GT-00-DA1-25

Inspection Date 7-16-15 Service Date 7-16-15 Technician/Company PATRICK SIERRA/AAA PUMPING

| RA1 Grease Interceptor | | Comments |
|---|---|---|
| Depth of Interceptor from Invert at Outlet Tee to Bottom of Outlet Chamber | 15 Inches | |
| Depth of FOG (fats, oils, grease) | 3 Inches | |
| Depth of Solids | 1 Inches | |
| Is the accumulated FOG and solids occupying greater than 25% of the interceptor capacity | (Yes)/No | 26.666 % |
| Prior to opening is odor from the interceptor present 10' or greater? | Yes/(No) | |
| Are the access covers in need of repair? | Yes/(No) | |
| FOG Passing by Interceptor? | Yes/(No) | |
| Does grease interceptor need immediate repair? | Yes/(No) | |
| Are there signs the grease interceptor walls may be deteriorating? | Yes/(No) | |
| Are there signs the grease interceptor may be leaking? | Yes/(No) | |
| Was the grease interceptor 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'S YARD |

Report must be delivered to Intel EHS upon completion

D.T.M. # 44990
GT-00-DA1-26

RR5 TRAP UNDER COUNTER

# Rio Rancho Grease Removal Device Report

Inspection Date 7-16-15 Service Date 7-16-15 Technician/Company PATRICK SIERRA/AAA PUMPING

| RA1 Grease Interceptor | | Comments |
|---|---|---|
| Depth of Interceptor from Invert at Outlet Tee to Bottom of Outlet Chamber | 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 interceptor capacity | Yes/(No) | |
| Prior to opening is odor from the interceptor present 10' or greater? | Yes/(No) | |
| Are the access covers in need of repair? | Yes/(No) | |
| FOG Passing by Interceptor? | Yes/(No) | |
| Does grease interceptor need immediate repair? | Yes/(No) | |
| Are there signs the grease interceptor walls may be deteriorating? | Yes/(No) | |
| Are there signs the grease interceptor may be leaking? | Yes/(No) | |
| Was the grease interceptor 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'S YARD |

Report must be delivered to Intel EHS upon completion

D.I.M.# 44970
GT-00-DA1-27

RRS TRAP BY OFFICE

# Rio Rancho Grease Removal Device Report

Inspection Date 7-16-15 Service Date 7-16-15 Technician/Company PATRICK SIERRA/AAA PUMPING

| *RA1 Grease Interceptor* | | *Comments* |
|---|---|---|
| Depth of Interceptor from Invert at Outlet Tee to Bottom of Outlet Chamber | 12 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 interceptor capacity | Yes/(No) | |
| Prior to opening is odor from the interceptor present 10' or greater? | Yes/(No) | |
| Are the access covers in need of repair? | Yes/(No) | |
| FOG Passing by Interceptor? | Yes/(No) | |
| Does grease interceptor need immediate repair? | Yes/(No) | |
| Are there signs the grease interceptor walls may be deteriorating? | Yes/(No) | |
| Are there signs the grease interceptor may be leaking? | Yes/(No) | |
| Was the grease interceptor 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 |

Report must be delivered to Intel EHS upon completion

D.T.M. #44970
GT-00-DAI-28

RR5 TRAP NORTH WEST / COFFEE

# Rio Rancho Grease Removal Device Report

Inspection Date 7-16-15 Service Date 7-16-15 Technician/Company ~~7-16-15~~ PATRICK SIERRA

| RA1 Grease Interceptor | | Comments AAA PUMPING |
|---|---|---|
| Depth of Interceptor from Invert at Outlet Tee to Bottom of Outlet Chamber | 12 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 interceptor capacity | Yes/No | |
| Prior to opening is odor from the interceptor present 10' or greater? | Yes/No | |
| Are the access covers in need of repair? | Yes/No | |
| FOG Passing by Interceptor? | Yes/No | |
| Does grease interceptor need immediate repair? | Yes/No | |
| Are there signs the grease interceptor walls may be deteriorating? | Yes/No | |
| Are there signs the grease interceptor may be leaking? | Yes/No | |
| Was the grease interceptor 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'S YARD |

Report must be delivered to Intel EHS upon completion

RR5 GREASE TRAP PUMP

# AAA PUMPING SERVICE, INC.

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

RR5

**DISPOSAL TRIP MANIFEST**
51983

## WASTE PRODUCER

PRODUCER'S NAME Intel RR5 PHONE 276-7416
APPROX. GALLONS 150 DATE OF COLLECTION 8/21/15
ADDRESS 4100 SARA Rd
WASTE TYPE:
CITY Rio Rancho STATE NM ZIP
☐ SAND OR GRIT ☐ ~~GREASE~~
RESPON. PERSON X [signature] DATE 8/21/15
☐ OTHER - DESCRIBE

## WASTE TRANSPORTER

TRUCK DRIVER'S SIGNATURE X Billy Hajj DATE 8/21/15 PERMIT NO. ~~5~~

## DISPOSAL SITE DATE STAMP

AAA Plumping Service
8-21-15

## HAULER'S BILLING INFORMATION

INVOICE NUMBER 24172 INVOICE DATE 8/21/15 INVOICE AMOUNT

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

DISPOSAL TRIP MANIFEST #51983 RR5 TRAP B4 POT WASH

GT-00-DA1-25

# Rio Rancho Grease Removal Device Report

Inspection Date 8-21-15 Service Date 8-21-15 Technician/Company BILLY HARJO / AAA PUMPING

| RA1 Grease Interceptor | | Comments |
|---|---|---|
| Depth of Interceptor from Invert at Outlet Tee to Bottom of Outlet Chamber | 15 Inches | |
| Depth of FOG (fats, oils, grease) | 8 Inches | OIL MOSTLY |
| Depth of Solids | 3 Inches | FOOD ON BOTTOM |
| Is the accumulated FOG and solids occupying greater than 25% of the interceptor capacity | (Yes)/No | WORKING WITH KARL HOLME/KITCHEN TO GET OIL LEVEL DOWN? |
| Prior to opening is odor from the interceptor present 10' or greater? | Yes/(No) | |
| Are the access covers in need of repair? | Yes/(No) | |
| FOG Passing by Interceptor? | Yes/(No) | |
| Does grease interceptor need immediate repair? | Yes/(No) | |
| Are there signs the grease interceptor walls may be deteriorating? | Yes/(No) | |
| Are there signs the grease interceptor may be leaking? | Yes/(No) | |
| Was the grease interceptor 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 |

Report must be delivered to Intel EHS upon completion

D.T.M. # 51983
6T-00-DA1-26

RR5 TRAP UNDER TABLE

# Rio Rancho Grease Removal Device Report

Inspection Date 8-21-15 Service Date 8-21-15 Technician/Company BILLY HARJO / AAA PUMPING

| RA1 Grease Interceptor | | Comments |
|---|---|---|
| Depth of Interceptor from Invert at Outlet Tee to Bottom of Outlet Chamber | 15 Inches | |
| Depth of FOG (fats, oils, grease) | 1/8 Inches | |
| Depth of Solids | 1/8 Inches | |
| Is the accumulated FOG and solids occupying greater than 25% of the interceptor capacity | Yes/(No) | |
| Prior to opening is odor from the interceptor present 10' or greater? | Yes/(No) | |
| Are the access covers in need of repair? | Yes/(No) | |
| FOG Passing by Interceptor? | Yes/(No) | |
| Does grease interceptor need immediate repair? | Yes/(No) | |
| Are there signs the grease interceptor walls may be deteriorating? | Yes/(No) | |
| Are there signs the grease interceptor may be leaking? | Yes/(No) | |
| Was the grease interceptor 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 | |

Report must be delivered to Intel EHS upon completion

D.T.M.# 51983

RR5 TRAP BY OFFICE

6T-00-DA1-27

# Rio Rancho Grease Removal Device Report

Inspection Date 8-21-15 Service Date 8-21-15 Technician/Company BILLY HARSO / AAA PUMPING

| RA1 Grease Interceptor | | Comments |
|---|---|---|
| Depth of Interceptor from Invert at Outlet Tee to Bottom of Outlet Chamber | 12 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 interceptor capacity | Yes/No | |
| Prior to opening is odor from the interceptor present 10' or greater? | Yes/No | |
| Are the access covers in need of repair? | Yes/No | |
| FOG Passing by Interceptor? | Yes/No | |
| Does grease interceptor need immediate repair? | Yes/No | |
| Are there signs the grease interceptor walls may be deteriorating? | Yes/No | |
| Are there signs the grease interceptor may be leaking? | Yes/No | |
| Was the grease interceptor 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 | |

Report must be delivered to Intel EHS upon completion

D.T.M. # 51983
GT-00-DA1-28

RR5 - TRAP NORTHWEST / COFFEE

# Rio Rancho Grease Removal Device Report

Inspection Date 8-21-15 Service Date 8-21-15 Technician/Company BILLY HARJO / AAA PUMPING

| RA1 Grease Interceptor | | Comments |
|---|---|---|
| Depth of Interceptor from Invert at Outlet Tee to Bottom of Outlet Chamber | 12 Inches | |
| Depth of FOG (fats, oils, grease) | 1/8 Inches | |
| Depth of Solids | 1 Inches | |
| Is the accumulated FOG and solids occupying greater than 25% of the interceptor capacity | Yes/(No) | |
| Prior to opening is odor from the interceptor present 10' or greater? | Yes/(No) | |
| Are the access covers in need of repair? | Yes/(No) | |
| FOG Passing by Interceptor? | Yes/(No) | |
| Does grease interceptor need immediate repair? | Yes/(No) | |
| Are there signs the grease interceptor walls may be deteriorating? | Yes/(No) | |
| Are there signs the grease interceptor may be leaking? | Yes/(No) | |
| Was the grease interceptor 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 | |

Report must be delivered to Intel EHS upon completion

RR5 GREASE TRAP PUMP

# AAA PUMPING SERVICE, INC.

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

RR5

**DISPOSAL TRIP MANIFEST** 52481

## WASTE PRODUCER

PRODUCER'S NAME Intel RR5 PHONE 220-7410

ADDRESS 4100 Sara Rd

CITY Rio Rancho STATE NM ZIP

RESPON. PERSON X [signature] DATE 9/18/15

APPROX. GALLONS 150 DATE OF COLLECTION 9/18/15

WASTE TYPE:

☐ SAND OR GRIT ☑ GREASE

☐ OTHER - DESCRIBE

## WASTE TRANSPORTER

TRUCK DRIVER'S SIGNATURE X Bobby Hays DATE 9/18/15 PERMIT NO. —

## DISPOSAL SITE DATE STAMP

AAA Pumping Service

9-18-15

## HAULER'S BILLING INFORMATION

INVOICE NUMBER 24506 INVOICE DATE 9/18/15 INVOICE AMOUNT

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

DISPOSAL TRIP MANIFEST # 52481 RRS TRAP BY POT WASH

GT-00-DAI-25

# Rio Rancho Grease Removal Device Report

Inspection Date 9-18-15 Service Date 9-18-15 Technician/Company BILLY HARJO AAA PUMPING

| *RA1 Grease Interceptor* | | *Comments* |
|---|---|---|
| Depth of Interceptor from Invert at Outlet Tee to Bottom of Outlet Chamber | 15 Inches | |
| Depth of FOG (fats, oils, grease) | 8 Inches | NOTE: GREASE IS NOT BAD-(MOSTLY OIL) |
| Depth of Solids | 1 Inches | |
| Is the accumulated FOG and solids occupying greater than 25% of the interceptor capacity | (Yes)/No | WORKING WITH COOKS AND DISH WASHER TO GET OIL LEVELS DOWN |
| Prior to opening is odor from the interceptor present 10' or greater? | Yes/(No) | |
| Are the access covers in need of repair? | Yes/(No) | |
| FOG Passing by Interceptor? | Yes/(No) | |
| Does grease interceptor need immediate repair? | Yes/(No) | |
| Are there signs the grease interceptor walls may be deteriorating? | Yes/(No) | |
| Are there signs the grease interceptor may be leaking? | Yes/(No) | |
| Was the grease interceptor 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 | |

Report must be delivered to Intel EHS upon completion

D.T.M. # 52481

GT-00-DA1-26

RR5 TRAP UNDER TABLE

# Rio Rancho Grease Removal Device Report

Inspection Date 9-18-15 Service Date 9-18-15 Technician/Company BILLY HARSO AAA PUMPING

| *RA1 Grease Interceptor* | | *Comments* |
|---|---|---|
| Depth of Interceptor from Invert at Outlet Tee to Bottom of Outlet Chamber | 15 Inches | |
| Depth of FOG (fats, oils, grease) | 1/8 Inches | |
| Depth of Solids | 1/8 Inches | |
| Is the accumulated FOG and solids occupying greater than 25% of the interceptor capacity | Yes/No | |
| Prior to opening is odor from the interceptor present 10' or greater? | Yes/No | |
| Are the access covers in need of repair? | Yes/No | |
| FOG Passing by Interceptor? | Yes/No | |
| Does grease interceptor need immediate repair? | Yes/No | |
| Are there signs the grease interceptor walls may be deteriorating? | Yes/No | |
| Are there signs the grease interceptor may be leaking? | Yes/No | |
| Was the grease interceptor 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 |

Report must be delivered to Intel EHS upon completion

D.T.M. # 52481

RR5 TRAP ~~XXXXX~~ BY OFFICE

GT-00-DA1-27

# Rio Rancho Grease Removal Device Report

Inspection Date 9-18-15 Service Date 9-18-15 Technician/Company BILLY HARJO AAA PUMPING

| *RA1 Grease Interceptor* | | *Comments* |
|---|---|---|
| Depth of Interceptor from Invert at Outlet Tee to Bottom of Outlet Chamber | 12 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 interceptor capacity | Yes/No | |
| Prior to opening is odor from the interceptor present 10' or greater? | Yes/No | |
| Are the access covers in need of repair? | Yes/No | |
| FOG Passing by Interceptor? | Yes/No | |
| Does grease interceptor need immediate repair? | Yes/No | |
| Are there signs the grease interceptor walls may be deteriorating? | Yes/No | |
| Are there signs the grease interceptor may be leaking? | Yes/No | |
| Was the grease interceptor 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 |

Report must be delivered to Intel EHS upon completion

D. T. M. # 52481

GT-00-DA1-28

RR5 TRAP NORTH/WEST COFFEE

# Rio Rancho Grease Removal Device Report

Inspection Date 9-18-15 Service Date 9-18-15 Technician/Company BILLY HARSO AAA PUMPING

| *RA1 Grease Interceptor* | | *Comments* |
|---|---|---|
| Depth of Interceptor from Invert at Outlet Tee to Bottom of Outlet Chamber | 12 Inches | |
| Depth of FOG (fats, oils, grease) | 1/2 Inches | |
| Depth of Solids | 1 Inches | |
| Is the accumulated FOG and solids occupying greater than 25% of the interceptor capacity | Yes/No | |
| Prior to opening is odor from the interceptor present 10' or greater? | Yes/No | |
| Are the access covers in need of repair? | Yes/No | |
| FOG Passing by Interceptor? | Yes/No | |
| Does grease interceptor need immediate repair? | Yes/No | |
| Are there signs the grease interceptor walls may be deteriorating? | Yes/No | |
| Are there signs the grease interceptor may be leaking? | Yes/No | |
| Was the grease interceptor 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 | |

Report must be delivered to Intel EHS upon completion

TRAP

RR5 GREASE PUMP

# AAA PUMPING SERVICE, INC.

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

RR-5

**DISPOSAL TRIP MANIFEST** 53359

## WASTE PRODUCER

PRODUCER'S NAME Intel RR5 PHONE 270-7410 APPROX. GALLONS 150 DATE OF COLLECTION 10/16/15

ADDRESS 4100 Sara Rd

CITY Rio Rancho STATE NM ZIP

WASTE TYPE:

☐ SAND OR GRIT ☒ GREASE

☐ OTHER - DESCRIBE

RESPON. PERSON X DATE 10/16/15

## WASTE TRANSPORTER

TRUCK DRIVER'S SIGNATURE X Billy Hays DATE 10/16/15 PERMIT NO.

## DISPOSAL SITE DATE STAMP

AAA pumping Service

10-16-15

## HAULER'S BILLING INFORMATION

INVOICE NUMBER 24810 INVOICE DATE 10/16/15 INVOICE AMOUNT

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

DTM. # 53359

RRS TRAP BY POT WASH

# Rio Rancho Grease Removal Device Report

6T-00-DA1-25

Inspection Date 10-16-15 Service Date 10-16-15 Technician/Company BILLY HARJO / AAA PUMPING

| RA1 Grease Interceptor | | Comments |
|---|---|---|
| Depth of Interceptor from Invert at Outlet Tee to Bottom of Outlet Chamber | 15 Inches | |
| Depth of FOG (fats, oils, grease) | 10 Inches | GREASE 1/8 (REST OIL) |
| Depth of Solids | 1 Inches | |
| Is the accumulated FOG and solids occupying greater than 25% of the interceptor capacity | (Yes)/No | |
| Prior to opening is odor from the interceptor present 10' or greater? | Yes/(No) | |
| Are the access covers in need of repair? | Yes/(No) | |
| FOG Passing by Interceptor? | Yes/(No) | |
| Does grease interceptor need immediate repair? | Yes/(No) | |
| Are there signs the grease interceptor walls may be deteriorating? | Yes/(No) | |
| Are there signs the grease interceptor may be leaking? | Yes/(No) | |
| Was the grease interceptor 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 |

Report must be delivered to Intel EHS upon completion

DTM # 53359
GT-00-DA1-26

RR5 TRAP UNDER TABLE

# Rio Rancho Grease Removal Device Report

Inspection Date 10-16-15 Service Date 10-16-15 Technician/Company BILLY HARJO/AAA PUMPING

| RA1 Grease Interceptor | | Comments |
|---|---|---|
| Depth of Interceptor from Invert at Outlet Tee to Bottom of Outlet Chamber | 15 Inches | |
| Depth of FOG (fats, oils, grease) | 1/8 Inches | |
| Depth of Solids | 1/8 Inches | |
| Is the accumulated FOG and solids occupying greater than 25% of the interceptor capacity | Yes/No | |
| Prior to opening is odor from the interceptor present 10' or greater? | Yes/No | |
| Are the access covers in need of repair? | Yes/No | |
| FOG Passing by Interceptor? | Yes/No | |
| Does grease interceptor need immediate repair? | Yes/No | |
| Are there signs the grease interceptor walls may be deteriorating? | Yes/No | |
| Are there signs the grease interceptor may be leaking? | Yes/No | |
| Was the grease interceptor 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 |

Report must be delivered to Intel EHS upon completion

DTM # 53359

GT-00-DA1-27

RR5 TRAP BY OFFICE

# Rio Rancho Grease Removal Device Report

Inspection Date 10-16-15 Service Date 10-16-15 Technician/Company 10-16-15

| RA1 Grease Interceptor | | Comments |
|---|---|---|
| Depth of Interceptor from Invert at Outlet Tee to Bottom of Outlet Chamber | 12 Inches | |
| Depth of FOG (fats, oils, grease) | 1/4 Inches | |
| Depth of Solids | 1/4 Inches | |
| Is the accumulated FOG and solids occupying greater than 25% of the interceptor capacity | Yes/(No) | |
| Prior to opening is odor from the interceptor present 10' or greater? | Yes/(No) | |
| Are the access covers in need of repair? | Yes/(No) | |
| FOG Passing by Interceptor? | Yes/(No) | |
| Does grease interceptor need immediate repair? | Yes/(No) | |
| Are there signs the grease interceptor walls may be deteriorating? | Yes/(No) | |
| Are there signs the grease interceptor may be leaking? | Yes/(No) | |
| Was the grease interceptor 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 |

Report must be delivered to Intel EHS upon completion

DTM # 53359
GT-00-DA1-28

RR5 TRAP NORTH/WEST - COFFEE

# Rio Rancho Grease Removal Device Report

Inspection Date 10-16-15 Service Date 10-16-15 Technician/Company BILLY HARJO / AAA PUMPING

| RA1 Grease Interceptor | | Comments |
|---|---|---|
| Depth of Interceptor from Invert at Outlet Tee to Bottom of Outlet Chamber | 12 Inches | |
| Depth of FOG (fats, oils, grease) | 1/4 Inches | |
| Depth of Solids | 1 Inches | |
| Is the accumulated FOG and solids occupying greater than 25% of the interceptor capacity | Yes/No | |
| Prior to opening is odor from the interceptor present 10' or greater? | Yes/No | |
| Are the access covers in need of repair? | Yes/No | |
| FOG Passing by Interceptor? | Yes/No | |
| Does grease interceptor need immediate repair? | Yes/No | |
| Are there signs the grease interceptor walls may be deteriorating? | Yes/No | |
| Are there signs the grease interceptor may be leaking? | Yes/No | |
| Was the grease interceptor 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 |

Report must be delivered to Intel EHS upon completion

RR5 GREASE TRAP PUMP

# AAA PUMPING SERVICE, INC.

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

RR5

**DISPOSAL TRIP MANIFEST**
52621

## WASTE PRODUCER

PRODUCER'S NAME Intel RR5 PHONE 270-7410
APPROX. GALLONS 150 DATE OF COLLECTION 11/13/15
ADDRESS 4100 SARA Rd
WASTE TYPE:
CITY Rio Rancho STATE NM ZIP
☐ SAND OR GRIT ☑ GREASE
☐ OTHER - DESCRIBE
RESPON. PERSON X DATE 11/13/15

## WASTE TRANSPORTER

TRUCK DRIVER'S SIGNATURE X Bobby Hajo DATE 11/12/15 PERMIT NO.

## DISPOSAL SITE DATE STAMP

AAA Pumping Service
11-13-15

## HAULER'S BILLING INFORMATION

INVOICE NUMBER 25212 INVOICE DATE 11/13/15 INVOICE AMOUNT

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

DISPOSAL TRIP MANIFEST NUMBER 52621 - RR5 TRAP BY POT WASH

# Rio Rancho Grease Removal Device Report

6T-00-DA1-25

Inspection Date 11-13-15 Service Date 11-13-15 Technician/Company BILLY HARSO / AAA PUMPING

| RA1 Grease Interceptor | | Comments |
|---|---|---|
| Depth of Interceptor from Invert at Outlet Tee to Bottom of Outlet Chamber | 15 Inches | |
| Depth of FOG (fats, oils, grease) | 7 Inches | MOSTLY OIL |
| Depth of Solids | 2 Inches | FOOD ON BOTTOM MOSTLY RICE |
| Is the accumulated FOG and solids occupying greater than 25% of the interceptor capacity | (Yes)/No | |
| Prior to opening is odor from the interceptor present 10' or greater? | Yes/(No) | |
| Are the access covers in need of repair? | Yes/(No) | |
| FOG Passing by Interceptor? | Yes/(No) | |
| Does grease interceptor need immediate repair? | Yes/(No) | |
| Are there signs the grease interceptor walls may be deteriorating? | Yes/(No) | |
| Are there signs the grease interceptor may be leaking? | Yes/(No) | |
| Was the grease interceptor 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 | |

Report must be delivered to Intel EHS upon completion

D.T.M. # 52621

RR5 TRAP UNDER TABLE

# Rio Rancho Grease Removal Device Report

6T-00-DA1-26

Inspection Date 11-13-15 Service Date 11-13-15 Technician/Company BILLY HARJO/AAA PUMPING

| RA1 Grease Interceptor | | Comments |
|---|---|---|
| Depth of Interceptor from Invert at Outlet Tee to Bottom of Outlet Chamber | 15 Inches | |
| Depth of FOG (fats, oils, grease) | 1/8 Inches | |
| Depth of Solids | 1/8 Inches | |
| Is the accumulated FOG and solids occupying greater than 25% of the interceptor capacity | Yes/(No) | |
| Prior to opening is odor from the interceptor present 10' or greater? | Yes/(No) | |
| Are the access covers in need of repair? | Yes/(No) | |
| FOG Passing by Interceptor? | Yes/(No) | |
| Does grease interceptor need immediate repair? | Yes/(No) | |
| Are there signs the grease interceptor walls may be deteriorating? | Yes/(No) | |
| Are there signs the grease interceptor may be leaking? | Yes/(No) | |
| Was the grease interceptor 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 | = 50 MLG BH |
| Location where grease was disposed of: | AAA | PUMPING YARD |

Report must be delivered to Intel EHS upon completion

D.T.M. # 52621
6T-00-DA1-27

RR5 TRAP BY OFFICE

# Rio Rancho Grease Removal Device Report

Inspection Date 11-13-15 Service Date 11-13-15 Technician/Company BILLY HARD / AAA PUMPING

| *RA1 Grease Interceptor* | | *Comments* |
|---|---|---|
| Depth of Interceptor from Invert at Outlet Tee to Bottom of Outlet Chamber | 12 Inches | |
| Depth of FOG (fats, oils, grease) | 1/8 Inches | |
| Depth of Solids | 1/8 Inches | |
| Is the accumulated FOG and solids occupying greater than 25% of the interceptor capacity | Yes/(No) | |
| Prior to opening is odor from the interceptor present 10' or greater? | Yes/(No) | |
| Are the access covers in need of repair? | Yes/(No) | |
| FOG Passing by Interceptor? | Yes/(No) | |
| Does grease interceptor need immediate repair? | Yes/(No) | |
| Are there signs the grease interceptor walls may be deteriorating? | Yes/(No) | |
| Are there signs the grease interceptor may be leaking? | Yes/(No) | |
| Was the grease interceptor 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 | |

Report must be delivered to Intel EHS upon completion

D.T.M. # 52621
6T-00-DA1-27

RR5-TRAP COFFEE NORTH/WEST UNIT

# Rio Rancho Grease Removal Device Report

Inspection Date 11-13-15 Service Date 11-13-15 Technician/Company BILLY HARJO/AAA PUMPING

| *RA1 Grease Interceptor* | | *Comments* |
|---|---|---|
| Depth of Interceptor from Invert at Outlet Tee to Bottom of Outlet Chamber | 12 Inches | |
| Depth of FOG (fats, oils, grease) | 1/8 Inches | |
| Depth of Solids | 1 Inches | |
| Is the accumulated FOG and solids occupying greater than 25% of the interceptor capacity | Yes/(No) | |
| Prior to opening is odor from the interceptor present 10' or greater? | Yes/(No) | |
| Are the access covers in need of repair? | Yes/(No) | |
| FOG Passing by Interceptor? | Yes/(No) | |
| Does grease interceptor need immediate repair? | Yes/(No) | |
| Are there signs the grease interceptor walls may be deteriorating? | Yes/(No) | |
| Are there signs the grease interceptor may be leaking? | Yes/(No) | |
| Was the grease interceptor 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 | |

Report must be delivered to Intel EHS upon completion

[redacted]

RR5 GREASE TRAP PUMP

# AAA PUMPING SERVICE, INC.

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

RR5

**DISPOSAL TRIP MANIFEST**
53003

## WASTE PRODUCER

PRODUCER'S NAME Intel-RR5 PHONE

APPROX. GALLONS 150 DATE OF COLLECTION 12 / 18 / 15

ADDRESS 4100 Sara Rd

WASTE TYPE:

CITY Rio Rancho STATE NM ZIP

☐ SAND OR GRIT ☑ GREASE

RESPON. PERSON X [signature] DATE 12 / 18 / 15

☐ OTHER - DESCRIBE

## WASTE TRANSPORTER

TRUCK DRIVER'S SIGNATURE X [signature] DATE 12 / 18 / 15 PERMIT NO.

## DISPOSAL SITE DATE STAMP

AAA Pumping
Service
12/18/15

## HAULER'S BILLING INFORMATION

INVOICE NUMBER 025480 INVOICE DATE 12 / 18 / 15 INVOICE AMOUNT

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

DISPOSAL TRIP MANIFEST # 53003 TRAP BY POT WASH

GT-00-DA1-25

# Rio Rancho Grease Removal Device Report

Inspection Date 12-18-15 Service Date 12-18-15 Technician/Company FRANCISCO DIAZ/AAA PUMPING

| RA1 Grease Interceptor | | Comments |
|---|---|---|
| Depth of Interceptor from Invert at Outlet Tee to Bottom of Outlet Chamber | 15 Inches | |
| Depth of FOG (fats, oils, grease) | 6 Inches | MOSTLY OIL |
| Depth of Solids | 1 Inches | |
| Is the accumulated FOG and solids occupying greater than 25% of the interceptor capacity | (Yes)/No | |
| Prior to opening is odor from the interceptor present 10' or greater? | Yes/(No) | |
| Are the access covers in need of repair? | Yes/(No) | |
| FOG Passing by Interceptor? | Yes/(No) | |
| Does grease interceptor need immediate repair? | Yes/(No) | |
| Are there signs the grease interceptor walls may be deteriorating? | Yes/(No) | |
| Are there signs the grease interceptor may be leaking? | Yes/(No) | |
| Was the grease interceptor 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 |

Report must be delivered to Intel EHS upon completion

D.T.M. # 53003
GT-00-DA1-26

TRAP UNDER TABLE

# Rio Rancho Grease Removal Device Report

Inspection Date 12-18-15 Service Date 12-18-15 Technician/Company FRANCISCO DIAZ/AAA PUMPING

| *RA1 Grease Interceptor* | | *Comments* |
|---|---|---|
| Depth of Interceptor from Invert at Outlet Tee to Bottom of Outlet Chamber | 15 Inches | |
| Depth of FOG (fats, oils, grease) | 1/4 Inches | |
| Depth of Solids | 1/4 Inches | |
| Is the accumulated FOG and solids occupying greater than 25% of the interceptor capacity | Yes/(No) | |
| Prior to opening is odor from the interceptor present 10' or greater? | Yes/(No) | |
| Are the access covers in need of repair? | Yes/(No) | |
| FOG Passing by Interceptor? | Yes/(No) | |
| Does grease interceptor need immediate repair? | Yes/(No) | |
| Are there signs the grease interceptor walls may be deteriorating? | Yes/(No) | |
| Are there signs the grease interceptor may be leaking? | Yes/(No) | |
| Was the grease interceptor 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 |

Report must be delivered to Intel EHS upon completion

D.T.M. # 53003
GT-00-DA1-27

TRAP BY OFFICE

# Rio Rancho Grease Removal Device Report

Inspection Date 12-18-15 Service Date 12-18-15 Technician/Company FRANCISCO DIAZ / AAA PUMPING

| *RA1 Grease Interceptor* | | *Comments* |
|---|---|---|
| Depth of Interceptor from Invert at Outlet Tee to Bottom of Outlet Chamber | 12 Inches | |
| Depth of FOG (fats, oils, grease) | 1/2 Inches | |
| Depth of Solids | 1/4 Inches | |
| Is the accumulated FOG and solids occupying greater than 25% of the interceptor capacity | Yes/No | |
| Prior to opening is odor from the interceptor present 10' or greater? | Yes/No | |
| Are the access covers in need of repair? | Yes/No | |
| FOG Passing by Interceptor? | Yes/No | |
| Does grease interceptor need immediate repair? | Yes/No | |
| Are there signs the grease interceptor walls may be deteriorating? | Yes/No | |
| Are there signs the grease interceptor may be leaking? | Yes/No | |
| Was the grease interceptor 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 |

Report must be delivered to Intel EHS upon completion

D.T.M. # 53003
6T-00-DA1-28

TRAP FOR COFFEE AREA - NORTH/WEST

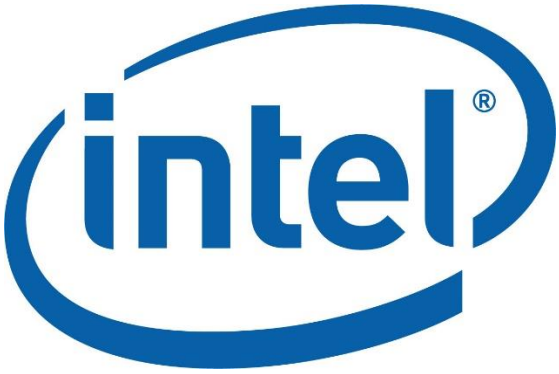
# Rio Rancho Grease Removal Device Report

Inspection Date 12-18-15 Service Date 12-18-15 Technician/Company FRANCISCO DIAZ / AAA PUMPING

| RA1 Grease Interceptor | | Comments |
|---|---|---|
| Depth of Interceptor from Invert at Outlet Tee to Bottom of Outlet Chamber | 12 Inches | |
| Depth of FOG (fats, oils, grease) | 1/4 Inches | |
| Depth of Solids | 3/4 Inches | |
| Is the accumulated FOG and solids occupying greater than 25% of the interceptor capacity | Yes/(No) | |
| Prior to opening is odor from the interceptor present 10' or greater? | Yes/(No) | |
| Are the access covers in need of repair? | Yes/(No) | |
| FOG Passing by Interceptor? | Yes/(No) | |
| Does grease interceptor need immediate repair? | Yes/(No) | |
| Are there signs the grease interceptor walls may be deteriorating? | Yes/(No) | |
| Are there signs the grease interceptor may be leaking? | Yes/(No) | |
| Was the grease interceptor 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 |

Report must be delivered to Intel EHS upon completion

# Intel New Mexico
# Toxic Organic (Solvent) Management Plan



Submitted to:

Albuquerque Bernalillo County
Water Utility Authority
Industrial Waste Pretreatment Section

Prepared By:

Intel Corporation
4100 Sara Road
Rio Rancho, New Mexico 87124

2016 Revision

Intel New Mexico
Toxic Organic (Solvent) Management Plan

## Table of Contents

## 1.0 Introduction

This 2016 update of the Intel New Mexico site Toxic Organic Management Plan (TOMP) is prepared to meet the requirements of Wastewater Industrial Discharge Permit 2021A. Per Endorsement TR6, the Permittee is required to submit a TOMP to the Industrial Waste Engineer every two years, and when changes to the plan occur. The Plan shall identify all toxic organics used onsite, quantities used and stored at the facility, procedures followed to prevent discharge and spills of these materials to the sanitary sewer, and the method of disposal used in place of discharge to the sanitary sewer. The 2016 revision should be submitted the Industrial Waste Engineer no later than April 1, 2016.

Intel Corporation located at 4100 Sara Road, Rio Rancho, New Mexico 87124 operates a 300 millimeter wafer semiconductor manufacturing facility. The site also operates various chemical, module repair, and computer labs, a large scale computing server farm, and multiple office and support buildings.

Semiconductor manufacturing processes use various organic compounds, generally classified as resists, cleaners/solvents, and etchants. The resists are mixtures of photoactive compounds, resins, and other non-halogenated solvents used to image a circuit pattern onto the Silicon wafer. Cleaning solvents are used to rinse the wafers and clean equipment parts. Common cleaning solvents include Acetone, Isopropyl Alcohol (IPA), Tetramethyl Ammonium Hydroxide (TMAH), Ethylene Glycol (EG), and n-Methyl Pyrrolidone (NMP). Etchants are used to chemically remove unwanted materials from the wafer. The chemical labs use similar chemicals but in limited quantities. Examples of organic etchants used at Intel Rio Rancho include methyl sulfonic acid (MSA), sulfolane, and diethylene glycol monoethyl ether (DGMEE).

The U.S. EPA has promulgated wastewater effluent guidelines for semiconductor manufacturing in 40 CFR 469 Subpart A, which includes a list of Total Toxic Organics (TTOs) for the semiconductor industry. No TTOs listed in 40 CFR 469 Subpart A are used in Intel's manufacturing process in Rio Rancho.

## 2.0 Chemical Use Approval and Control

Intel maintains a chemical approval process that serves to prevent unauthorized introduction of chemicals at the NM site, thereby keeping them out of wastewater discharged to the Albuquerque Bernalillo County Water Utility Authority (ABCWUA). Every chemical used on site, including those used in the manufacturing process, must be approved by a site Environmental Engineer and Industrial Hygienist. Part of the approval process includes a review of the chemical constituents against various lists of toxic and hazardous chemicals regulated by the EPA, the New Mexico Environment Department (NMED), ABCWUA, and other applicable agencies.

In addition, for process technologies transferred to New Mexico from the process development site are analyzed and vetted based on Intel’s “Design for Environment”

(DfE) criteria. This process aims to minimize waste, emissions, water, and energy use with each new process technology. Intel has also implemented a chemical "Green Screen" process that searches for the best environmental alternative for each process chemical with consideration to the process requirements, which Intel will use for 100% of new chemicals and gases used in its process by 2020 (See Appendix A for Intel's 2020 Environmental Goals). The program aims to use chemicals that have a reduced "cradle to grave" environmental impact during their manufacture, use, and disposal, thus reduce the amount of hazardous wastes generated from the manufacturing process at the source. The screening process is completed before a process technology is finalized and transferred to any of Intel's High Volume Manufacturing (HVM) sites, including New Mexico.

For non-technology transfer process chemicals, such as pilot chemicals or facilities/maintenance chemicals, a request must be completed and approved at the site level before the new chemical can be brought on site. Intel's Purchasing Department verifies that all chemicals have been approved prior to ordering any chemicals.

Review of new chemicals includes information on the chemical constituents, concentrations, use locations, use type, and material Safety Data Sheet (SDS) content. This information is used to determine waste management, treatment (if applicable), personnel protective equipment, and disposal methods.

## 3.0 Waste Management Practices

Intel's waste/wastewater utilities and collection systems are constructed to ensure proper segregation and treatment of waste and wastewaters. No open trenches or piping cross-connections are allowed between the systems. There are no open floor drains in manufacturing areas except for those directly servicing emergency showers. Separate piping and collection systems have been constructed for the following liquid waste streams:

1. Corrosive wastewater
2. Fluoride-bearing wastewater
3. Ammonium Fluoride-bearing wastewater
4. Copper-bearing wastewater
5. General Solvent Waste (GSW)
6. Corrosive Solvent Waste (CSW)
7. Spin-On-Glass Solvent Waste (SOG)

The first four waste streams listed above are treated prior to being released to the sewer. The last three waste streams (5-7) are collected separately in tanks and shipped offsite by an EPA permitted Treatment, Storage, and Disposal Facility (TSDF).

All manufacturing and support equipment is evaluated prior to installation to determine the volume and nature of liquid waste, if any. Installations are then made with drain system hookups to the appropriate treatment or collection system(s) to ensure proper waste segregation. The newly-installed equipment and drain

connections are inspected and documented through a formal Equipment Sign-Off process prior to use.

Necessary wastewater treatment systems are installed with each process technology to ensure compliance with all applicable permits and regulations. Intel New Mexico has a robust pretreatment program that treats for wastewater ammonia, fluorides, metals, and elementary neutralization prior to discharge to the POTW. Many of the organic solvents used in the process drain to segregated collection systems and shipped to an approved TSDF for treatment & disposal. This ensures that all wastewater leaving the New Mexico site is well within applicable limits, and impact to the POTW is minimized.

Some liquid organic wastes, such as specialty oils and viscous organic chemicals, are collected in 55-gallon drums. These drums are shipped off-site to an EPA permitted TSDF. All storage facilities have secondary containment systems and are inspected on a weekly basis.

Some organic chemicals that are present in some manufacturing process steps do enter the wastewater system. For example, diethylene glycol monoethyl ether (DGMEE) and sulfolane from the wafer-rinsing baths are drained to the Acid Neutralization Wastewater system. Treatability studies of these and all Intel wastewater pollutants have been completed prior to implementing any new process technology to ensure no issues arise with discharge permit compliance, POTW process upset, or other pertinent concerns.

## 4.0 Spill Prevention and Clean Up

Liquid chemicals are delivered through double-contained piping to manufacturing areas. There is no underground chemical supply piping at Intel. There are multiple alarmed leak detection systems for immediate notification of spills or releases. Bottled chemicals are transported in carts designed to contain any spill.

Intel maintains Full Time Responder Teams (FRST) and Emergency Response Teams (ERT) assigned to all areas of the site, including manufacturing, support, and office areas. FRST personnel are onsite 24-hours per day and respond within minutes to any spill or emergency situation. Supporting ERT personnel are subject matter experts trained to respond to emergencies and knowledgeable on the hazards in the areas they work.

Wastes generated from all chemical spills, including organic spills, are collected and disposed of in accordance with all applicable regulations. Additionally, secondary containments in chemical docks and loading areas are designed to contain any chemical spill and prevent chemicals from entering the storm water or sanitary sewer systems. Industrial areas that commonly see chemical traffic are sealed with a Chemical Resistant Coating (CRC) to contain all chemical spills and prevent degradation of the outside surface or inside flooring.

# Appendix A: Intel Environmental "2020 Goals", 2014 Corporate Responsibility Report

| Goals and Performance | | |
|---|---|---|
| **2020 Environmental Goals** | **2014 Performance** | |
| Reduce direct greenhouse gas (GHG) emissions by 10% on a per unit basis[1] by 2020 from 2010 levels. | In 2014, our GHG emissions were down 22% on a per unit basis compared to 2010 levels, and with continued investment in emissions reducing initiatives, we believe we are on track to reach this goal. | ◒ |
| Reduce water use on a per unit basis below 2010 levels by 2020. | Our per unit water usage decreased by 9% in 2014 compared to 2013 levels, and with continued investments in water conservation, we believe we will be able to meet our 2020 goal. | ◒ |
| Achieve cumulative energy savings of 4 billion kWh from 2012 to 2020. | We continued to invest in energy conservation projects during 2014, investing $30 million and achieving energy savings of 211 million kWh for a total cumulative energy savings of 1.6 billion kWh. Taking into account other planned investments, we are on track to reach our goal. | ◒ |
| Achieve zero hazardous waste to landfill by 2020. | In 2014, we sent 0% of our hazardous waste generated to landfill, and are on track toward achieving our 2020 goal. | ◒ |
| Achieve 90% non-hazardous waste recycle rate by 2020. | We recycled 86% of our non-hazardous waste generated in 2014, and are on track to meet our 2020 goal. | ◒ |
| Reduce hazardous waste generation by 10% on a per unit basis[1] by 2020 from 2010 levels. | Based on our calculations and projections, we do not believe we will be able to achieve our 2020 goal. We have decided to eliminate this goal, and focus on reducing the amount of hazardous waste we send to landfill. | ○ |
| Implement an enhanced green chemistry screening and selection process for 100% of new chemicals and gases by 2020. | We continue to make progress toward our green chemistry screening and selection process for 100% of new chemicals and gases, and believe we will be able to achieve our 2020 goal. | ◒ |
| Design all new buildings to a minimum LEED* Silver certification between 2010 and 2020. | We successfully designed all new buildings to a minimum LEED* Silver certification, and have revised the goal to design all new buildings to a minimum LEED* Gold certification level between 2015 and 2020. | ● |
| Increase the energy efficiency of notebook computers and data center products 25x by 2020 from 2010 levels.[2] | We are working with industry partners to accomplish this aggressive goal, and believe we are on track to achieve it. | ◒ |

● Achieved ◒ Partially Achieved or on Track ○ Not Met

[1] Based on the number of die produced and made available for sale. [2] Data center energy efficiency is determined by server energy efficiency (as measured by SPECpower_ssj2008 or equivalent publications and using a 2010 baseline of an E56xx series processor-based server platform) as well as technology adoption that raises overall data center work output (such as virtualization technology). Notebook computer energy efficiency is determined by average battery life, battery capacity, and number of recharge cycles of volume notebook computers in that model year.