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October 14, 2013

Mr. Peter Magolske
Air and RCRA Compliance Unit
U.S. Environmental Protection Agency Region 10
1200 Sixth Avenue, Suite 900
Seattle, WA 98101-3140

Re: July-August 2013 Main Processing Area Groundwater Monitoring Report;
A-34 Lateral Assessment Work Plan;
Administrative Order on Consent for Nu-West Industries, Inc;
Docket No. RCRA-10-2009-0186

Dear Mr. Magolske:

On behalf of Nu-West Industries, Inc. (Nu-West), WSP has prepared this letter providing the results of the July and August 2013 groundwater monitoring conducted in the Main Processing Area at the Nu-West Conda Phosphate Operations (CPO) facility in Soda Springs, Idaho. The monitoring was conducted pursuant to and in accordance with the approved A-34 Lateral Assessment Work Plan (Work Plan), dated January 9, 2013. The approved plan included continuous water level and pH monitoring at groundwater monitoring well A-34-022 and routine groundwater sampling at monitoring and production wells in the Main Processing Area. This report includes monitoring data collected from July 5 through August 29, 2013. A list of figures, tables, and enclosures to accompany this report is provided at the end.

Groundwater monitoring results for the period January 23 through June 28, 2013 have been provided in the following:

- *Main Processing Area Groundwater Monitoring Report*, dated March 26, 2013
- *February-March 2013 Main Processing Area Groundwater Monitoring Report*, dated April 26, 2013
- *March-April 2013 Main Processing Area Groundwater Monitoring Report,* dated June 20, 2013
- *May-June 2013 Main Processing Area Groundwater Monitoring Report*, dated August 6, 2013

A-34-022 Water Level and pH Monitoring

During the week of December 17, 2012, Nu-West installed a set of pressure transducer/dataloggers in monitoring well A-34-022 to obtain continuous data on water level, pH, temperature, and conductivity. The set consisted of a pressure transducer (INW® model PT2X), pH and temperature datalogger (INW® model TempHion), and a conductivity datalogger (INW® model CT2X), each configured to collect measurements every 15 minutes. Weather data, including barometric pressure, daily precipitation, and ambient air temperature were also obtained from a weather station maintained at the CPO facility which recorded measurements at 15-minute intervals. The pressure transducer/datalogger files were

downloaded weekly and provided to the U.S Environmental Protection Agency (EPA) and Idaho Department of Environmental Quality (IDEQ). Figures 1 and 2 show the pressure transducer/datalogger files and weather data from March 9 through September 4, 2013.

Groundwater Sampling Procedures

Between July 5 and August 29, 2013, groundwater samples were collected from nine monitoring wells in the Main Processing Area (A-27-090, A-27-135, A-34-022, A-35-080, A-35-155, A-36-105, A-36-145, MW-A-110, and MW-B-120) and production well NW-9. The well locations are shown on Figure 3 and the well construction information is presented in Table 1. The sampling schedule was based on the groundwater pH, as determined by laboratory analysis.

- if groundwater pH is < 2.5 standard units (S.U.), weekly sampling
- if groundwater pH is > 2.5 but < 4.0 S.U., bi-weekly sampling
- if groundwater pH is > 4.0 S.U., monthly sampling

Only monitoring well A-34-022 exhibited groundwater pH < 2.5 S.U.; groundwater in all other monitoring wells and production well NW-9 had a pH > 4.0 S.U. As a result, A-34-022 was sampled weekly during the monitoring period (July 5, 11, 18, 25; August 1, 8, 15, 22 and 29), while all other wells were sampled once during the weeks of July 15 and August 26, 2013. The Work Plan states that if the groundwater pH indicates a different sampling frequency for two consecutive events, the monitoring or production well will be re-assigned to the appropriate sampling frequency. No changes to the sampling frequency occurred during the monitoring period.

On July 18 and August 26, 2013, the groundwater monitoring wells were uncapped and allowed to stand for a minimum of 15 minutes to allow the water level in the wells to equilibrate with the atmospheric pressure. The depth to groundwater to the nearest 0.01 foot was then measured from the reference point on the north side of the inner well casing using an electronic water level meter. The groundwater elevation data for each bedrock monitoring well is presented in Figures 3 and 4 and Table 2. The groundwater elevation data for the soil-bedrock interface monitoring wells in the A-34 Area are presented in Figures 5 and 6 and Table 3. Hydrographs of bedrock groundwater elevation from October 2012 through August 2013 are presented in Figure 7. Hydrographs of groundwater elevation data collected between March 7 and August 26, 2013 from soil-bedrock interface monitoring wells in the A-34 Area are provided in Figure 8. Historical bedrock groundwater elevation data are presented in Table 4.

Groundwater samples were collected from the bedrock monitoring wells using low-flow purge and sample methods. All sampling was conducted in accordance with WSP's revised SOP #3 and EPA low-flow sampling guidance (EPA 1996). The sampling of bedrock monitoring wells utilized a submersible bladder pump (QED® SamplePro® 1.75-inch diameter) equipped with polyethylene tubing, set at a flow rate of less than approximately 0.5-liter per minute. During purging, water temperature, pH, specific conductance, dissolved oxygen (DO), oxidation reduction potential (ORP), and turbidity were measured at 3- to 5-minute intervals using a Horiba® U-52 water quality meter equipped with a flow-through cell. The final field parameter measurements are presented in Table 5 along with field parameter measurements from sampling events from October 2012 through August 29, 2013. Well purging was conducted until the parameters stabilized with the two preceding measurements (±10 percent for temperature, turbidity, and DO; ±10 milliVolts for ORP; ±0.1 unit for pH; and ±3 percent for specific conductance). Final turbidity readings were less than 20 nephelometric turbidity units (NTU) for the

majority of samples collected during the reporting period, however; there were five samples where the final turbidity reading was between 20 and 36 NTUs.

Groundwater sampling at monitoring well A-34-022 was conducted using a dedicated electric submersible pump equipped with polyethylene tubing and utilized a three well volume purge prior to sampling. During purging on August 29, 2013, the pump stopped working, so purging and sampling was completed with a polyethylene bailer.

The groundwater samples were collected in pre-preserved containers supplied by the laboratory as detailed below. Groundwater samples collected for orthophosphate were field-filtered using a 0.45-micron in-line filter prior to sample preservation. All metals and wet chemistry analytes were submitted for laboratory analysis as total (unfiltered) samples.

The groundwater samples were submitted to Accutest Laboratories, Inc. (Accutest) in Orlando, Florida and analyzed for the following parameters:

- total dissolved solids (TDS) by Standard Method 2540C
- aluminum, antimony, arsenic, cadmium, calcium, chromium, iron, magnesium, potassium, selenium, and sodium by EPA Method 6010C
- chloride, fluoride, nitrate as N, and sulfate by EPA Method 300
- pH by Standard Method 4500 H+B
- total phosphorous by EPA Method 365.3
- dissolved orthophosphate by EPA Method 365.1
- total alkalinity as CaCO3 by Standard Method 2320B
- bicarbonate and carbonate alkalinity as CaCO3 by Standard Method 4500CO2D
- specific conductance by EPA Method 120.1

All non-disposable and non-dedicated groundwater sampling equipment was decontaminated in the field between uses in accordance with SOPs #16 and #17.

Investigation derived waste (IDW) from the sampling activities consisted of groundwater and liquids from the decontamination of sampling equipment and disposable personal protective equipment (PPE). IDW was managed for disposal in accordance with SOP #26. The PPE was disposed of offsite with the Facility's industrial solid waste. Purged groundwater and decontamination water was stored in labeled Department of Transportation (DOT) compliant 55-gallon drums pending characterization and offsite disposal.

Groundwater Sampling Results

Groundwater Elevation Data

Groundwater elevations measured on July 12 and August 26, 2013, were generally lower than elevations measured between December 2012 and June 2013. The groundwater elevation decreased in all eight bedrock monitoring wells between June and August 2013 (Figures 3, 4, and 7 and Table 2). The most notable decrease in July and August combined was in monitoring well A-27-135 (-4.60 feet), which is screened in the deeper water-bearing zone in the basalt aquifer.

In the A-27 well pair, the groundwater elevation was 4.47 feet higher in the shallow bedrock well (A-27-090) in July and 4.75 feet higher in August. A-27-090 is screened from 70 to 90 feet bgs at the basalt Flow Group A/C boundary, and the deeper well (A-27-135) is screened from 125 to 135 feet bgs below a prominent sedimentary interbed that occurs at the basalt Flow Group C/D boundary. The resulting vertical hydraulic gradient was downward (-0.089 to -0.095).

In the comparably screened A-35 well pair, a similar relationship exists. The groundwater elevation was between 0.85 and 1.85 feet higher in the shallow well (A-35-080), which is screened from 60 to 80 feet bgs at the basalt Flow Group A/C boundary, than in the deeper well (A-35-155), which is screened from 135 to 155 feet bgs below a prominent sedimentary interbed that occurs at the basalt Flow Group C/D boundary. The resulting vertical hydraulic gradient was downward (-0.011 to -0.025). The observed downward vertical hydraulic gradient is a reversal from the upward vertical hydraulic gradient observed in in this well pair from December 2012 through June 2013. During the month of July, the vertical hydraulic gradient reversed to downward and increased in magnitude through August 2013 (Table 2).

The A-36 well pair continued to have similar groundwater elevations in both wells, with only 0.00- to 0.04-foot difference in the groundwater elevation between the shallow well (A-36-105), which is screened at the base of the basalt sequence, and the deeper well (A-36-145), which is screened in the sedimentary aquifer. Among the nine sets of groundwater elevation measurements at the A-36 well pair, the vertical hydraulic gradient was slightly upward (+0.000 to +0.007).

In the soil-bedrock interface monitoring wells in the A-34 Area, groundwater elevations continued to decrease in July and August from seasonally high water levels measured in April 2013. A slight increase in the groundwater elevations measured on July 12, 2013 relative to elevations on June 26, 2013 are the result of several substantial rain events in early July.

Monitoring Well A-34-022

Final field parameters measured during the weekly sampling from July 5 through August 29, 2013 were generally consistent with field parameters measured during sampling events between December 2012 and June 28, 2013 (Table 5), although specific conductance continuously decreased since weekly sampling began on January 23, 2013. The temperature, which exhibited a decrease from December 2012 through late-May and early June 2013, continued to rise through the end of August 2013. The lowest field pH measurements (1.90 and 1.82 S.U.) were associated with samples collected on August 8 and August 29, 2013.

Laboratory analytical results for the July and August 2013 samples are presented in Figures 9, 10, and in Table 6. Table 8 includes the historical sampling results since monitoring well A-34-022 was installed. The laboratory data reports are provided in Enclosure A.

The laboratory pH values among the nine primary samples collected from groundwater monitoring well A-34-022 were between 2.31 and 2.58 S.U. The Idaho Secondary Constituent Standard range for pH is between 6.5 and 8.5 S.U.

Six metals were detected at concentrations above their respective EPA Maximum Contaminant Levels (MCLs) or Idaho Primary or Secondary Constituent Standards. Aluminum concentrations ranged between 731 and 1,010 mg/l, above the Idaho Secondary Constituent Standard of 0.2 mg/l. Arsenic

concentrations ranged between 0.093 and 0.205 mg/l, above the MCL of 0.01 mg/l. Cadmium concentrations ranged between 1.16 and 1.88 mg/l, above the MCL of 0.005 mg/l. Chromium concentrations ranged between 1.0 and 1.64 mg/l, above the MCL of 0.1 mg/l. Iron concentrations ranged between 700 and 992 mg/l, above the Idaho Secondary Constituent Standard of 0.3 mg/l. Selenium was detected at a concentration of 0.0503 mg/l in one sample above the Idaho Secondary Constituent Standard of 0.05 mg/l.

Among wet chemistry parameters, chloride, fluoride, sulfate, and TDS were detected at concentrations above MCLs or Idaho Primary or Secondary Constituent Standards. Chloride was detected at a concentration of 275 mg/l in one sample above the Idaho Secondary Constituent Standard of 250 mg/l. Fluoride concentrations ranged between 3,320 and 5,350 mg/l, above the MCL of 4 mg/l. Sulfate concentrations ranged between 7,350 and 9,630 mg/l, above the Idaho Secondary Constituent Standard of 250 mg/l. TDS concentrations ranged between 13,700 and 19,600 mg/l, above the above the Idaho Secondary Constituent Standard of 500 mg/l.

Figure 11 includes the groundwater sampling results for samples from A-34-022 plotted on a Piper diagram to illustrate the major ion geochemistry of the samples. The major ion geochemistry results are consistent with results for samples collected between December 2012 and June 2013. However, aluminum and iron, which are not included in a standard Piper diagram, represent a significant contribution to the total cation concentration in samples from A-34-022, accounting for between 50% and 60% of the total cation meq/l concentration.

Figure 12 shows time-series graphs of major cation concentrations, major anion concentrations, and constituent concentrations above MCLs or Idaho Primary Constituent Standards in samples from A-34-022. As shown in Figure 12, all major cation concentrations decreased from June to July following the A-34 pumping test and then remained generally consistent through August 2013. The concentration of the dominant anion, sulfate, was relatively stable at between approximately 10,000 and 13,000 mg/l from mid-April through June 2013 and then decreased to between 7,000 and 10,000 mg/l during July and August 2013 following the A-34 pumping test.

Tables 6 and 8 include the charge balance error for each sample, including the total cations and total anions in milliequivalents per liter (meq/l). The charge balance errors ranged from -20.32% to -38.45%, and all nine analyses had negative charge balance errors. The charge balance errors for samples collected during this period are notably higher than for samples collected between January and March 2013 but are similar to those collected between April and June 2013 and are predominantly attributable to higher reported fluoride and orthophosphate concentrations and the resulting calculated value for total anion concentration in meq/l. As shown in Figure 12 and Table 8, the total cation concentration in (in mg/l and meq/l) has exhibited a slight decreasing to at times relatively stable trend, while the total anion concentration (in mg/l and meq/l) has exhibited greater variability since weekly sampling began in January 2013.

Bedrock Monitoring and Production Wells

Final field parameters measured during the July and August 2013 monthly sampling were generally consistent with field parameters measured during sampling events between December 2012 and June 2013 (Table 5). Noticeably lower pH values were measured at several of the shallow bedrock wells in August 2013. Higher groundwater temperatures were measured in several of the wells during July and

August and are likely the result of higher ambient air temperature at the time of sampling affecting the temperature of the flow-through cell.

Laboratory analytical results for the July and August 2013 samples are presented in Figures 9, 10 and in Table 7. Table 8 includes the historical sampling results from October 2010 through August 2013. The laboratory data reports are provided in Enclosure A.

The laboratory pH values among the samples from the bedrock wells were between 5.18 and 7.15 S.U. The laboratory pH values in ten samples from six wells were below the Idaho Secondary Constituent Standard range between 6.5 to 8.5 S.U. (A-27-090, A-27-135, A-35-080, A-36-105, MW-A-110, and NW-9).

Four metals were detected at concentrations above their respective EPA Maximum Contaminant Levels (MCLs) or Idaho Primary Constituent Standards. Arsenic was detected above the MCL of 0.01 mg/l in samples from A-27-090, A-27-135, and A-35-080. Cadmium concentrations above the MCL of 0.005 mg/l were detected in samples from A-36-105, MW-A-110, and NW-9. Selenium concentrations about the MCL of 0.05 mg/l were detected in one sample from A-27-135.

Two metals were detected at concentrations above their respective Idaho Secondary Constituent Standards. Aluminum was detected above the Idaho Secondary Constituent Standard of 0.2 mg/l in samples from A-35-080, A-36-105, MW-A-110, MW-B-120, and NW-9. Iron was detected above the Idaho Secondary Constituent Standard of 0.3 mg/l in samples from A-35-080, A-36-105, A-36-145, and MW-B-120.

Among wet chemistry parameters, fluoride and nitrate were detected at concentrations above MCLs and Idaho Primary Constituent Standards. Fluoride concentrations above the MCL of 4 mg/l were detected in the samples from A-36-105, MW-A-110, MW-B-120, and NW-9. Nitrate concentrations above the MCL of 10 mg/l were detected in the samples from A-27-090, A-27-135, A-35-080, A-36-105, MW-A-110, and NW-9.

Chloride, sulfate, and TDS were detected at concentrations above Idaho Secondary Constituent Standards. Chloride was detected in the samples from MW-A-110 above the Idaho Secondary Constituent Standard of 250 mg/l. Sulfate concentrations above the Idaho Secondary Constituent Standard of 250 mg/l were detected in the samples from all nine bedrock wells, with the highest concentrations in the samples from A-36-105 and A-36-145. Similarly, TDS concentrations were above the Idaho Secondary Constituent Standard of 500 mg/l in the samples from all nine bedrock wells, with the highest concentrations in the samples from A-35-080, A-36-105, A-36-145, and MW-A-110.

Charge balance errors for samples from the bedrock wells varied from -22.32% to +0.87%. 9 of 20 samples (including two duplicate samples) had charge balance errors less than ±5%.

Figure 11 includes the groundwater sampling results for samples from the bedrock wells plotted on a Piper diagram to illustrate the major ion geochemistry of the samples. Figures 13 through 15 shows time-series graphs of constituent concentrations above MCLs or Idaho Primary Constituent Standards in samples collected from the bedrock wells.

The major ion geochemistry and concentrations of constituents above MCLs or Idaho Primary or Secondary Constituent Standards for samples collected in July 2013 were generally consistent with historical results from each of the nine bedrock wells; however samples collected in August 2013 show notable changes from previous results most notably at A-35-080, A-36-105, MW-B-120 and NW-9. At these wells aluminum, iron and fluoride concentrations have increased while pH values have decreased. Table 8 provides the historical sampling results. No constituents have been detected at concentrations above MCLs or Idaho Primary Constituent Standards in samples collected from monitoring well A-35-155.

QA/QC Sample Results and Data Quality Assessment

Two blind duplicate groundwater samples were collected (DUP07182013, A-35-155 on July 18, 2013; and DUP08282013, duplicate of A-35-080 on August 28, 2013). Relative Percent Differences (RPD) were calculated for constituents detected at concentrations above the laboratory reporting limit in both primary and duplicate samples. With a few exceptions, the analytical results for the duplicate samples were consistent with the results for the associated primary samples. In sample DUP07182013, nitrate, total phosphate, orthophosphate, and TDS had RPD values greater than 20%. For the second duplicate sample, DUP08282013, only the aluminum RPD was greater than 20%.

Two equipment blank samples (EB 07172013 and EB 08292013) were collected from the decontaminated pump used for the bedrock monitoring well sampling. The only constituents detected in the equipment blank were trace levels of alkalinity, calcium, chloride, sulfate, orthophosphate and TDS.

The analytical data were reviewed and verified to evaluate conformance with Data Quality Objectives (DQO) established in the Quality Assurance Project Plan (QAPP). Verification of field data was conducted according to the QAPP, and verification showed that there were no concerns. Verification of laboratory data was conducted according to the QAPP. The laboratory data packages provided in Enclosure A include case narratives of nonconformance with QA/QC requirements. Samples analyzed for pH by Standard Method 4500H+B and for specific conductance by Standard Method 120.1 were analyzed out of hold time. Several samples analyzed for total phosphorus and orthophosphate by EPA Method 365.3 were analyzed out of hold time due to re-analysis.

The reported fluoride concentrations for samples from A-34-022 were associated with a dilution factor of 1:2000. Fluoride analysis was conducted by EPA Method 300.0 in accordance with the Work Plan. Several split samples were collected and submitted to the Nu-West QC laboratory for fluoride analysis using Ion Specific Electrode (ISE) method PRO-018. The ISE reported fluoride concentrations of approximately 700 to 1,200 mg/l. The high negative charge balance error for these samples suggests that fluoride concentrations by EPA Method 300.0 may be over-reported.

Data Quality Objectives were reviewed and verified. With the exception of potential indications of interferences due to sample matrices as noted in the case narrative of the laboratory data packages, the Data Quality Assessment demonstrates that the data are representative. In accordance with the QAPP, twenty percent of data packages will be submitted for data validation. Data validation results will be included in the Revised Site Assessment Report, with an anticipated submittal date of March 14, 2014.

Discussion of Results

The groundwater monitoring results show decreasing trends for several constituents in samples collected from monitoring well A-34-022 since its installation in November 2012, and most notably since completion of the pumping test in late June 2013 (Figures 9, 10, and 12). Weekly samples have exhibited a slightly higher pH in July and August, and the sulfate concentrations have decreased from approximately 20,000 mg/l in December 2012 to approximately 8,000 mg/l at the end of August 2013. Fluoride concentrations have also decreased from a high of approximately 9,000 mg/l in May 2013 to approximately 3,000 mg/l on August 29, 2013. Fluoride concentrations show greater variability prior to August 2013. It should be noted that EPA Method 300.0 is used for trace concentrations of fluoride and other ions in drinking water and waste water. Samples from monitoring well A-34-022 contain high concentrations and require substantial dilutions to meet the standard method calibration range. The concentrations of major cations in samples from A-34-022 have decreased notably since the pumping test, with aluminum and iron concentrations consistently below 1,000 mg/l.

Groundwater elevations in the bedrock wells in July and August 2013 were lower than groundwater elevations from October 2012 through June 2013, with the greatest decreases associated with monitoring wells A-27-135, A-35-155, A-36-105 A-36-145, (Figures 3 and 4). The changes may be a response to local precipitation and infiltration and are consistent with the general pattern of lower groundwater elevations in the summer relative to other times of the year.

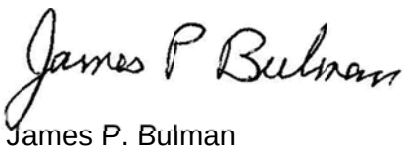
Constituent concentrations in the bedrock wells in July 2013 showed no substantial differences with the sampling results from October 2012 through June 2013, however during August 2013, samples from several wells had higher concentrations of aluminum, iron and fluoride with lower pH values (Figures 9,10, and 13 through 15; Tables 7 and 8).

Overall, the monitoring results demonstrate limited temporal differences in constituent concentrations detected in samples from the bedrock monitoring wells. As such, we conclude that data generated on a less frequent basis would be sufficient to evaluate potential changes in groundwater quality in the bedrock aquifer. On September 5, 2013, Nu-West submitted a Groundwater Monitoring Plan, which proposed monthly and quarterly sampling of monitoring wells in the Main Processing Area. The Groundwater Monitoring Plan is being revised based on comments provided by EPA in a letter dated September 30, 2013. In a second letter dated September 30, 2013, EPA approved changes to supplant the Main Processing Area Groundwater Monitoring Program with the Groundwater Monitoring Plan requirements (i.e. replace weekly and bi-weekly sampling of A-34-022 with monthly sampling, replace monthly sampling of the A-27, A-35, and A-36 bedrock wells with quarterly sampling, eliminate sampling of MW-A-110, MW-B-120, and NW-9). As requested in the September 30, 2013 letter, Nu-West will continue to monitor water level and temperature at A-34-022 with a pressure transducer / datalogger, measure pH on a bi-weekly basis, and report the water level, temperature, and pH data on a monthly basis.

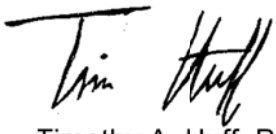
EPA and IDEQ have raised concerns regarding the value of groundwater monitoring data from wells with screened intervals greater than 20 feet or wells screened across multiple water-bearing zones and requested that monitoring well MW-A-110 be decommission (plugged) in accordance with the Idaho Well Construction Rules. The plugging of monitoring well MW-A-110 was completed on October 6, 2013.

Please let us know if you have any questions or comments on the report.

Sincerely,



James P. Bulman
Executive Vice President



Timothy A. Huff, P.G.
Technical Manager

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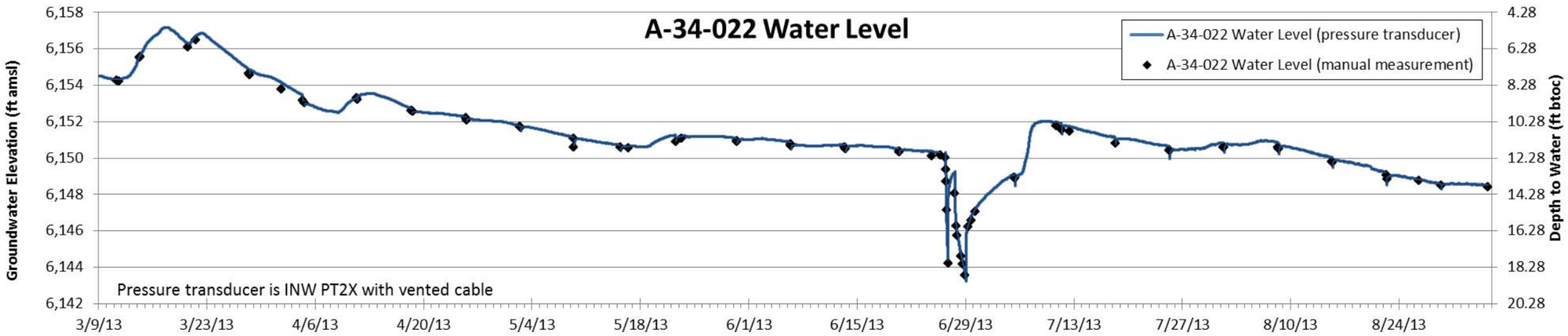
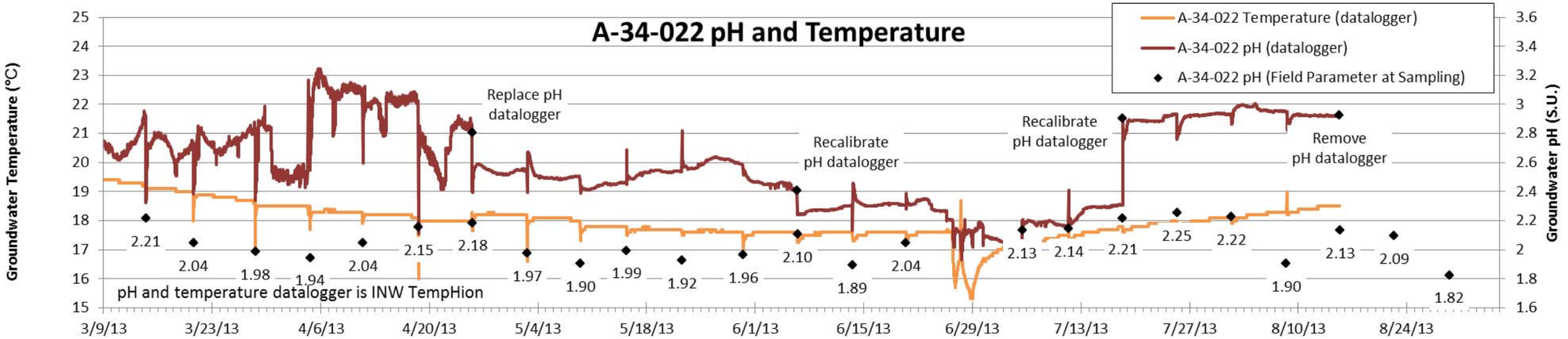
Enclosures

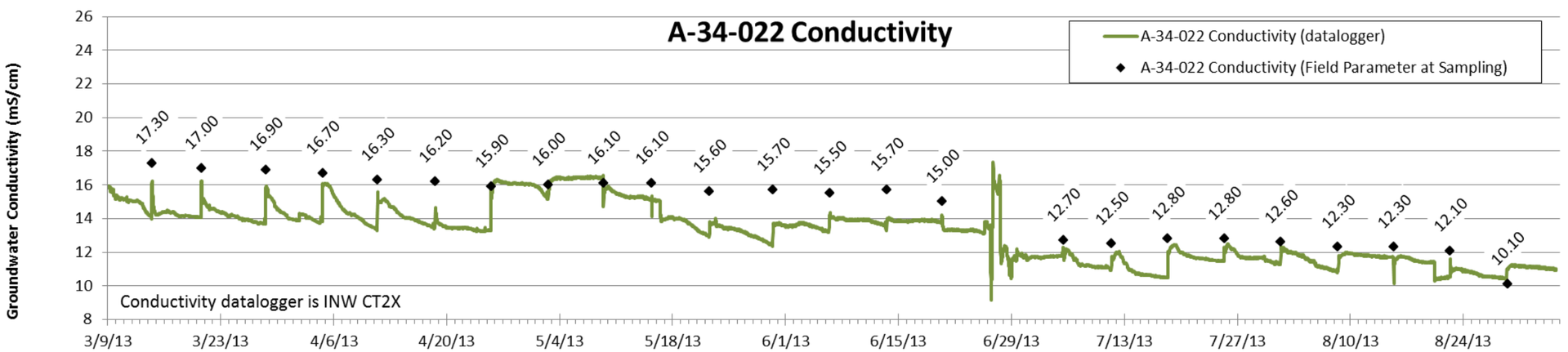
cc: Brian Monson, Idaho Department of Environmental Quality
Brian English, Idaho Department of Environmental Quality
J. Wayne Maxie, Agrium, Nu-west Industries
Timothy Carlstedt, Esq., Hunton & Williams
P. Scott Burton, Esq., Hunton & Williams

Figures

Figure 1 – A-34-022 Datalogger and Pressure Transducer Results
Figure 2 – A-34-022 Pressure Transducer Results and Weather Data
Figure 3 – Groundwater Elevation Data and Bedrock Potentiometric Surface Map (July 12, 2013) – Main Processing Area
Figure 4 – Groundwater Elevation Data and Bedrock Potentiometric Surface Map (August 26, 2013) – Main Processing Area
Figure 5 – Groundwater Elevation Data (July 12, 2013) – A-34 Area
Figure 6 – Groundwater Elevation Data (August 26, 2013) – A-34 Area
Figure 7 – Monitoring Well Hydrographs – October 2012 through August 2013 – Main Processing Area
Figure 8 – Monitoring Well Hydrographs – March 2013 through August 2013 – A-34 Area
Figure 9 – Groundwater Sampling Analytical Results for Metals and pH – Main Processing Area
Figure 10 – Groundwater Sampling Analytical Results for Wet Chemistry Parameters – Main Processing Area
Figure 11 – Piper Diagram – Groundwater Sampling Results – Main Processing Area
Figure 12 – A-34-022 Groundwater Sampling Results
Figure 13 – A-27-090, A-27-135, and A-35-080 Groundwater Sampling Results
Figure 14 – A-36-105 and A-36-145 Groundwater Sampling Results
Figure 15 – MW-A-110, MW-B-120, and NW-9 Groundwater Sampling Results







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NU-WEST CPO FACILITY
SODA SPRINGS, IDAHO
PREPARED FOR
HUNTON & WILLIAMS

FIGURE 1

A-34-022 DATALOGGER AND
PRESSURE TRANSDUCER RESULTS

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WSP USA Corp.
4600 South Ulster Street, Suite 930
Denver, Colorado 80237
(303) 850-9200
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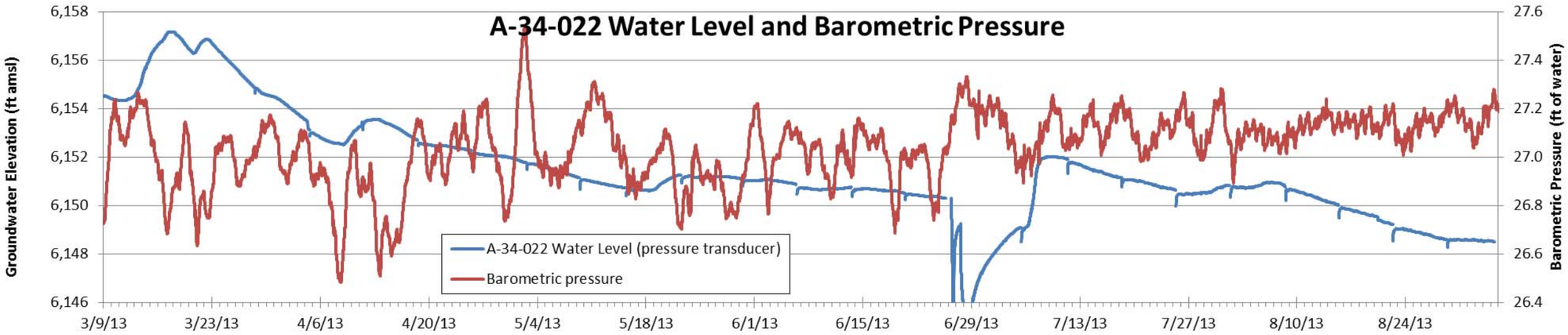

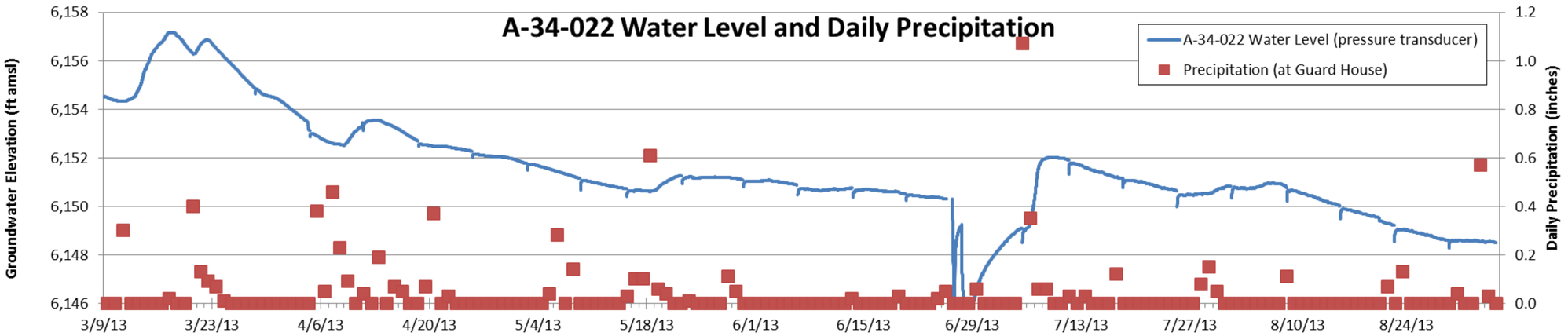

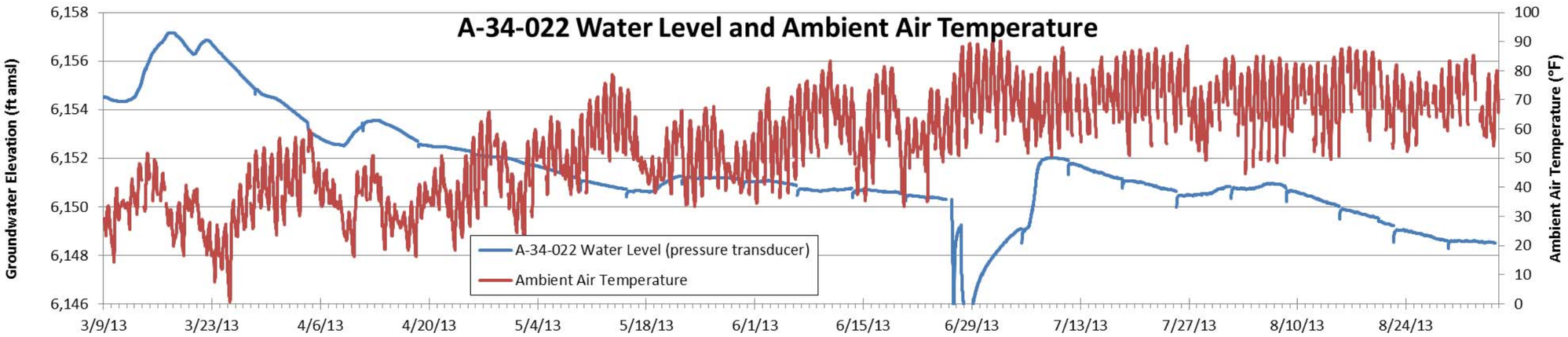

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NU-WEST CPO FACILITY
SODA SPRINGS, IDAHO
PREPARED FOR
HUNTON & WILLIAMS

FIGURE 2

A-34-022 PRESSURE TRANSDUCER
RESULTS AND WEATHER DATA

WSP
WSP USA Corp.
4600 South Ulster Street, Suite 930
Denver, Colorado 80237
(303) 850-9200
www.wspenvironmental.com/usa

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HAZARDOUSE WASTE STORAGE BUILDING

SANITARY SEWER LAGOON

SANITARY SEWER LAGOON

SANITARY SEWER LAGOON

E&I SHOP

SUBSTATION

DIGESTER FILTER BUILDING

SOUTH BALL MILL

NORTH CAR WASH SUMP

PROCESS SEWER LAGOON

UNLOADING AREA

NORTH SULFURIC ACID PLANT

OPEN STORAGE

SPA AREA

SOUTH CAR WASH SUMP

PHOS ACID PLANT

CENTRAL TANK FARM

SPA BUILDING

EAST DITCH

OXIDATION TANK FARM

EAST SULFURIC ACID PLANT

WEST SULFURIC ACID PLANT (AKA WEST SHOP)

DRY PRODUCT STORAGE

END

PRODUCT LOADING AREA

SHIPPING

GRANULATION BUILDING

AMMONIA SPHERE

PPA AREA

OFFICES

OFFICES

OPEN STORAGE

OPEN STORAGE

OPEN STORAGE

OPEN STORAGE

QC LABORATORY

OFFICES

A-47-034 A-45-027 A-44-017 A-44-024 A-43-019 A-34-022 A-43-025 A-39-023 A-40-023 A-46-028 A-41-031 A-42-020 A-48-026 A-27-135 A-27-090 A-36-155 A-35-080 A-36-145 A-36-105 MW-A-110 MW-B-120 NW-9 NW-1

12/10/2012	6155.32
2/11/2013	6154.54
3/11/2013	6154.18
4/1/2013	6153.74
5/17/2013	6150.49
6/7/2013	6150.52
7/12/2013	6151.44

12/10/2012	6117.02
2/11/2013	6117.58
3/11/2013	6117.14
4/1/2013	6118.25
5/17/2013	6119.85
6/7/2013	6118.92
7/12/2013	6117.35

12/10/2012	6119.56
2/11/2013	6120.41
3/11/2013	6119.18
4/1/2013	6120.78
5/17/2013	6121.68
6/7/2013	6120.9
7/12/2013	6119.5

12/10/2012	6122.83
2/11/2013	6123.84
3/11/2013	6123.04
4/1/2013	6123.9
5/17/2013	6124.36
6/7/2013	6123.49
7/12/2013	6121.85

12/10/2012	6122.6
2/11/2013	6123.59
3/11/2013	6122.95
4/1/2013	6123.74
5/17/2013	6124.26
6/7/2013	6123.4
7/12/2013	6121.82

12/10/2012	6118.68
2/11/2013	6118.86
3/11/2013	6118.98
4/1/2013	6121.02
5/17/2013	6124.07
6/7/2013	6123.51
7/12/2013	6121.82

12/10/2012	6116.73
2/11/2013	6117.53
3/11/2013	6118.11
4/1/2013	6120.1
5/17/2013	6121.56
6/7/2013	6120.08
7/12/2013	6120.35

12/10/2012	6114.5
2/11/2013	6116.77
3/11/2013	6117.58
4/1/2013	6118.97
5/17/2013	6120.63
6/7/2013	6120.24
7/12/2013	6119.52

12/10/2012	6117.67
2/11/2013	6119.61
3/11/2013	6119.83
4/1/2013	6120.84
5/17/2013	6122.04
6/7/2013	6121.66
7/12/2013	6120.52

6121.5 6121 6120.5 6120 6121 6120.5 6121.5

LEGEND

- MONITORING WELL LOCATION
- PRODUCTION WELL LOCATION
- LINER
- DATE / GROUNDWATER ELEVATION (FEET ABOVE MEAN SEA LEVEL)
- GROUNDWATER ELEVATION CONTOUR

NOTES:

1. GROUNDWATER ELEVATION CONTOUR LINES GENERATED USING ELEVATION DATA FROM SHALLOW WELL AT A–27, A–35, AND A–36 WELL PAIRS.

2. GROUNDWATER ELEVATION CONTOUR LINES WERE GENERATED USING A LIMITED SET OF MONITORING WELLS IN THE MAIN PROCESSING AREA AND MAY NOT REPRESENT INTERPOLATED GROUNDWATER ELEVATION CONTOUR LINES GENERATED USING AN EXTENDED SET OF MONITORING WELLS (i.e. SITE–WIDE GAUGING EVENT). ANY INTERPRETATION OF GROUNDWATER FLOW DIRECTION BASED ON THIS LIMITED DATA SET IS POTENTIALLY INACCURATE.

N

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100 0 100 200

SCALE, FEET

Drawing Number 00036785–D01

FIGURE 3

WSP USA Corp.
4600 South Ulster Street, Suite 930
Denver, Colorado 80237
(303) 850-9200
www.wspenvironmental.com/usa

GROUNDWATER ELEVATION DATA AND BEDROCK POTENTIOMETRIC SURFACE MAP (JULY 12, 2013) MAIN PROCESSING AREA

NU–WEST CPO FACILITY
SODA SPRINGS, IDAHO

PREPARED FOR
NU–WEST INDUSTRIES, INC.
SODA SPRINGS, IDAHO

DRAWN BY	RAZ 09052013
CHECKED	MJG 09062013
APPROVED	

PROPERTY OF WSP USA CORP.
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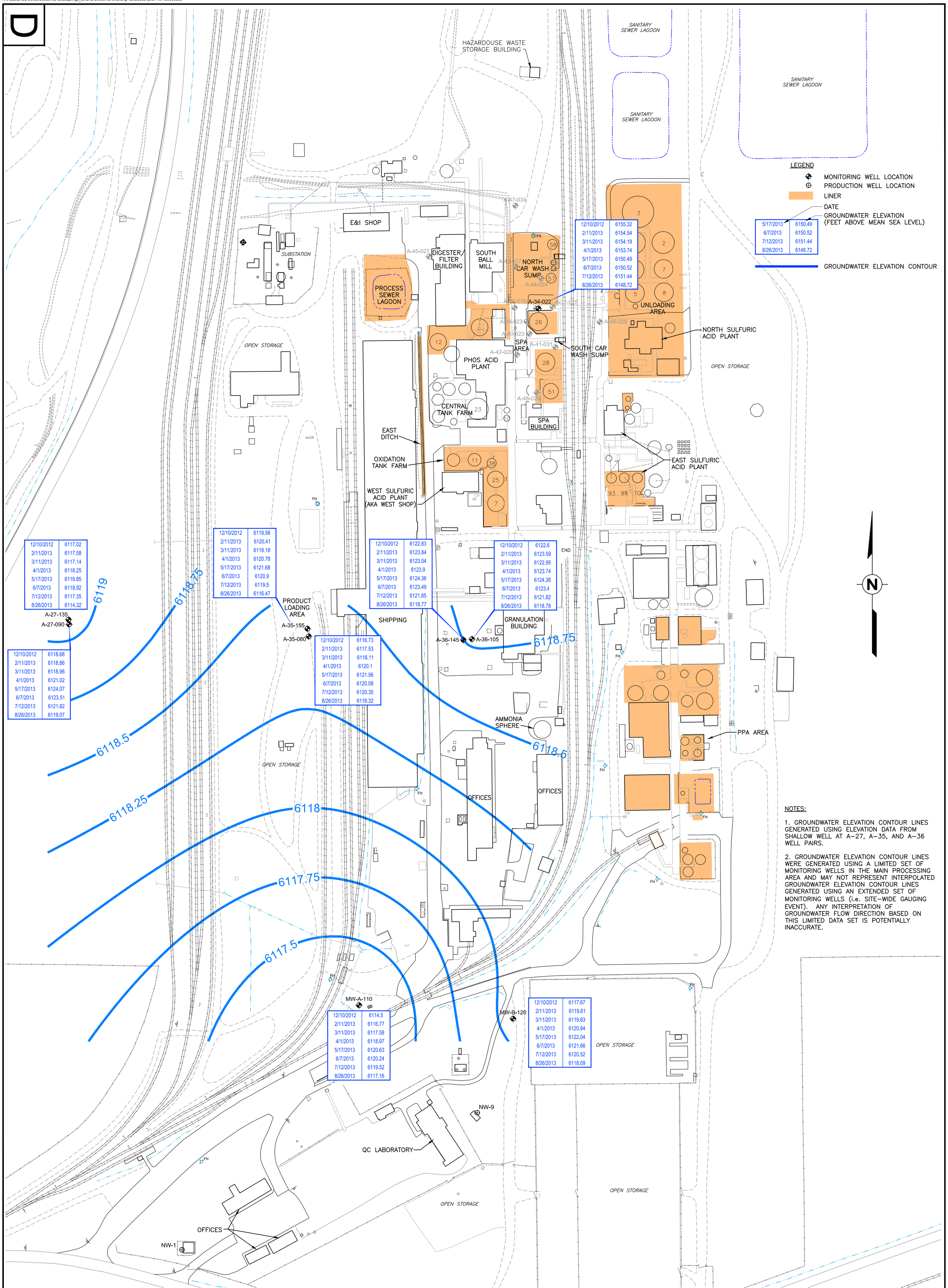

5/17/2013	6150.49
6/7/2013	6150.52
7/12/2013	6151.44
8/26/2013	6148.72

12/10/2012	6155.32
2/11/2013	6154.54
3/11/2013	6154.18
4/1/2013	6153.74
5/17/2013	6150.49
6/7/2013	6150.52
7/12/2013	6151.44
8/26/2013	6148.72

12/10/2012	6117.02
2/11/2013	6117.58
3/11/2013	6117.14
4/1/2013	6118.25
5/17/2013	6119.85
6/7/2013	6118.92
7/12/2013	6117.35
8/26/2013	6114.32

A-27-135
A-27-090

12/10/2012	6118.68
2/11/2013	6118.86
3/11/2013	6118.98
4/1/2013	6121.02
5/17/2013	6124.07
6/7/2013	6123.51
7/12/2013	6121.82
8/26/2013	6119.07

12/10/2012	6119.56
2/11/2013	6120.41
3/11/2013	6119.18
4/1/2013	6120.78
5/17/2013	6121.68
6/7/2013	6120.9
7/12/2013	6119.5
8/26/2013	6116.47

12/10/2012	6116.73
2/11/2013	6117.53
3/11/2013	6118.11
4/1/2013	6120.1
5/17/2013	6121.56
6/7/2013	6120.08
7/12/2013	6120.35
8/26/2013	6118.32

12/10/2012	6122.83
2/11/2013	6123.84
3/11/2013	6123.04
4/1/2013	6123.9
5/17/2013	6124.36
6/7/2013	6123.49
7/12/2013	6121.85
8/26/2013	6118.77

12/10/2012	6122.6
2/11/2013	6123.59
3/11/2013	6122.95
4/1/2013	6123.74
5/17/2013	6124.26
6/7/2013	6123.4
7/12/2013	6121.82
8/26/2013	6118.78

12/10/2012	6114.5
2/11/2013	6116.77
3/11/2013	6117.58
4/1/2013	6118.97
5/17/2013	6120.63
6/7/2013	6120.24
7/12/2013	6119.52
8/26/2013	6117.16

12/10/2012	6117.67
2/11/2013	6119.61
3/11/2013	6119.83
4/1/2013	6120.84
5/17/2013	6122.04
6/7/2013	6121.66
7/12/2013	6120.52
8/26/2013	6118.09

NOTES:

1. GROUNDWATER ELEVATION CONTOUR LINES GENERATED USING ELEVATION DATA FROM SHALLOW WELL AT A–27, A–35, AND A–36 WELL PAIRS.

2. GROUNDWATER ELEVATION CONTOUR LINES WERE GENERATED USING A LIMITED SET OF MONITORING WELLS IN THE MAIN PROCESSING AREA AND MAY NOT REPRESENT INTERPOLATED GROUNDWATER ELEVATION CONTOUR LINES GENERATED USING AN EXTENDED SET OF MONITORING WELLS (i.e. SITE–WIDE GAUGING EVENT). ANY INTERPRETATION OF GROUNDWATER FLOW DIRECTION BASED ON THIS LIMITED DATA SET IS POTENTIALLY INACCURATE.

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100 0 100 200
SCALE, FEET

Drawing Number 00036785–D02

FIGURE 4

WSP USA Corp.
4600 South Ulster Street, Suite 930
Denver, Colorado 80237
(303) 850-9200
www.wspenvironmental.com/usa

GROUNDWATER ELEVATION DATA AND BEDROCK POTENTIOMETRIC SURFACE MAP (AUG. 26, 2013) MAIN PROCESSING AREA

NU–WEST CPO FACILITY
SODA SPRINGS, IDAHO

PREPARED FOR
NU–WEST INDUSTRIES, INC.
SODA SPRINGS, IDAHO

DRAWN BY	RAZ 09052013
CHECKED	MJG 09062013
APPROVED	

PROPERTY OF WSP USA CORP.
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LEGEND

- MONITORING WELL
- SOIL BORING
- LINER
- 6,137.15 GROUNDWATER ELEVATION (FEET AMSL)
- 6142 GROUNDWATER ELEVATION CONTOUR

N

6138 6140 6142 6144 6146 6148 6150

A-47-034 6,137.15
A-45-027 6,139.79
A-43-017 6,151.38
A-44-024 6,146.51
A-38-019 6,151.36
A-34-022 6,151.44
A-37-025 6,148.74
A-39-023 6,147.87
A-46-028 6,141.69
A-40-023 6,148.07
A-41-031 6,142.43
A-42-020 6,149.69
A-48-026 6,144.79

SB-19 SB-20 SB-21 SB-22 SB-23 SB-24 SB-26 SB-27 SB-28 SB-29 SB-34 SB-35 SB-5 SB-6 SB-7 SB-88 SB-89 SB-90 SB-91 SB-92 SB-93 SB-94 SB-95 SB-96 SB-97 SB-98 SB-99 SB-100 SB-101

DIGESTER/ FILTER BUILDING
SOUTH BALL MILL
NORTH CAR WASH SUMP
PHOS SCRUBBER
ROCK SILO
SPA AREA
SOUTH CAR WASH SUMP
PHOS ACID PLANT
CENTRAL TANK FARM

58 55 56 57 26 12 28 51 23

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20 10 0 20 40
SCALE, FEET

Drawing Number 00036785-D05

FIGURE 5

WSP
WSP USA Corp.
4600 South Ulster Street, Suite 930
Denver, Colorado 80237
(303) 850-9200
www.wspenvironmental.com/usa

GROUNDWATER ELEVATION DATA
JULY 12, 2013

NU-WEST CPO FACILITY
SODA SPRINGS, IDAHO

PREPARED FOR
NU-WEST INDUSTRIES, INC.
SODA SPRINGS, IDAHO

DRAWN BY	RAZ 09/19/2013
CHECKED	MJG 09/20/2013
APPROVED	

PROPERTY OF WSP USA CORP.
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LEGEND

- MONITORING WELL
- SOIL BORING
- LINER
- 6,135.45 GROUNDWATER ELEVATION (FEET AMSL)
- 6142 GROUNDWATER ELEVATION CONTOUR

N

6136

6138

6140

6142

6144

6146

6148

A-47-034 6,135.45

A-45-027 6,139.60

A-43-017 6,148.78

A-44-024 6,146.03

A-38-019 6,148.76

A-34-022 6,148.72

A-37-025 6,147.20

A-39-023 6,147.16

A-40-023 6,147.04

A-42-020 6,147.62

A-41-031 6,141.09

A-46-028 6,140.31

A-48-026 6,143.52

SB-19 SB-20 SB-21 SB-22 SB-23 SB-24 SB-26 SB-27 SB-28 SB-29 SB-33 SB-34 SB-35 SB-36 SB-88 SB-90 SB-91 SB-92 SB-93 SB-94 SB-95 SB-96 SB-97 SB-98 SB-99 SB-100 SB-101 SB-5 SB-6 SB-7

DIGESTER/ FILTER BUILDING

SOUTH BALL MILL

NORTH CAR WASH SUMP

SOUTH CAR WASH SUMP

PHOS SCRUBBER

ROCK SILO

SPA AREA

PHOS ACID PLANT

CENTRAL TANK FARM

12 23 26 28 51 55 56 57 58

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20 10 0 20 40

SCALE, FEET

Drawing Number 00036785-D06

FIGURE 6

WSP

WSP USA Corp.
4600 South Ulster Street, Suite 930
Denver, Colorado 80237
(303) 850-9200
www.wspenvironmental.com/usa

GROUNDWATER ELEVATION DATA
AUGUST 26, 2013

NU-WEST CPO FACILITY
SODA SPRINGS, IDAHO

PREPARED FOR
NU-WEST INDUSTRIES, INC.
SODA SPRINGS, IDAHO

DRAWN BY	RAZ 09/20/2013
CHECKED	MJG 09/20/2013
APPROVED	

PROPERTY OF WSP USA CORP.
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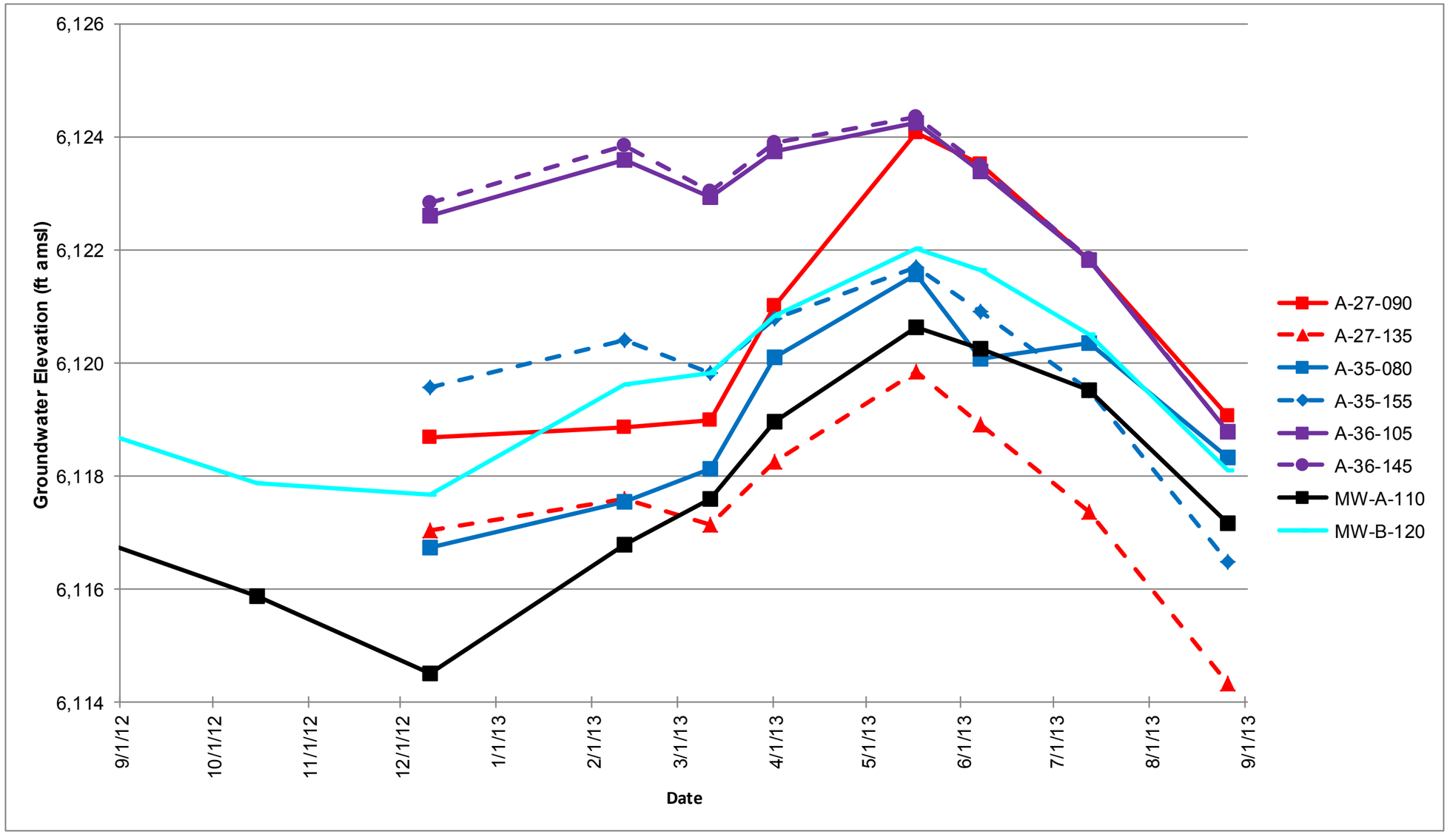
3	Revised:	Chkd:	Appr.:



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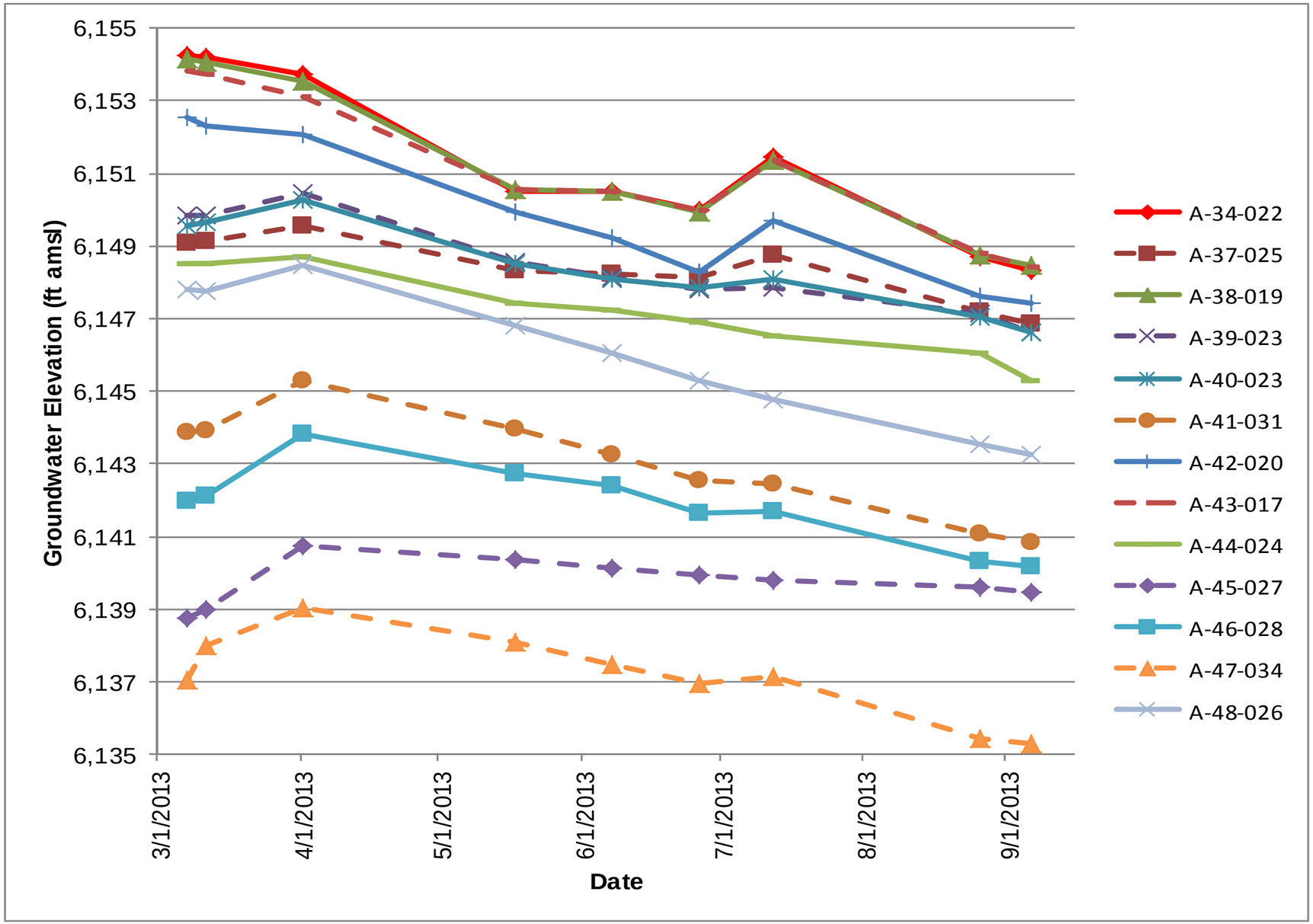
Approved:
PUB Name: 00036785-A13pub

NU-WEST CPO FACILITY
SODA SPRINGS, IDAHO
PREPARED FOR
HUNTON & WILLIAMS

FIGURE 7

MONITORING WELL HYDROGRAPHS
OCTOBER 2012 THROUGH AUGUST 2013
MAIN PROCESSING AREA

WSP
WSP USA Corp.
4600 South Ulster Street, Suite 930
Denver, Colorado 80237
(303) 850-9200
www.wspenvironmental.com/usa



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PUB Name: 00036785-A14pub

NU-WEST CPO FACILITY
SODA SPRINGS, IDAHO
PREPARED FOR
HUNTON & WILLIAMS

FIGURE 8

MONITORING WELL HYDROGRAPHS
MARCH 2013 THROUGH AUGUST 2013
A-34 AREA

WSP
WSP USA Corp.
4600 South Ulster Street, Suite 930
Denver, Colorado 80237
(303) 850-9200
www.wspenvironmental.com/usa

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HAZARDOUSE WASTE STORAGE BUILDING

SANITARY SEWER LAGOON

SANITARY SEWER LAGOON

SANITARY SEWER LAGOON

SUBSTATION

OPEN STORAGE

OPEN STORAGE

OPEN STORAGE

OPEN STORAGE

OPEN STORAGE

END

A-45-027

A-47-034

A-44-017

A-44-024

A-43-019

A-34-022

A-37-025

A-39-023

A-40-023

A-46-028

A-41-031

A-42-020

A-48-026

FH

CB

TC

93 98

LEGEND

- MONITORING WELL LOCATION
- PRODUCTION WELL LOCATION
- LINER
- EPA MCL — EPA MAXIMUM CONTAMINANT LEVELS
- ID GWS — IDAHO PRIMARY AND SECONDARY GROUNDWATER QUALITY STANDARDS
- EXCEED ONE OR MORE GROUNDWATER SCREENING CRITERIA
- NA — NOT ANALYZED
- NS — NO STANDARD

Groundwater Screening Criteria (mg/l)

	EPA MCL	ID GWS
pH	NS	6.5-8.5
Aluminum	NS	0.2
Antimony	0.006	0.006
Arsenic	0.01	0.05
Cadmium	0.005	0.005
Calcium	NS	NS
Chromium	0.1	0.1
Iron	NS	0.3
Magnesium	NS	NS
Manganese	NS	0.05
Potassium	NS	NS
Selenium	0.05	0.05
Sodium	NS	NS
Thallium	0.002	0.002

NOTE: ALL CONCENTRATIONS IN mg/l.

NOTE:

METALS CONCENTRATIONS FOR SAMPLES COLLECTED BEFORE 2/25/2013 ARE DISSOLVED METALS. METALS CONCENTRATIONS FOR SAMPLES COLLECTED AFTER 2/25/2013 ARE TOTAL METALS.

A-34-022	7/5/2013	7/11/2013	7/18/2013	7/25/2013	8/1/2013	8/8/2013	8/15/2013	8/22/2013	8/29/2013
pH	2.31	2.44	2.35	2.39	2.45	2.54	2.4	2.47	2.58
Aluminum	979	731	1,010	796	944	840	734	784	946
Antimony	< 0.0065	< 0.0065	< 0.0065	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.0065
Arsenic	0.166	0.093	0.169	0.126	0.205	0.149	0.14	0.129	0.164
Cadmium	1.53	1.16	1.69	1.44	1.74	1.7	1.51	1.61	1.88
Chromium	1.64	1.08	1.26	1.21	1.42	1.25	1	1.01	1.2
Iron	912	700	948	827	992	838	769	863	859
Selenium	< 0.010	< 0.020	0.0321	0.0212	< 0.020	< 0.020	0.0503	< 0.020	0.0197
Major Cations									
Calcium	496	365	533	453	554	511	462	465	598
Magnesium	643	482	710	544	646	564	519	543	598
Potassium	270	186	296	235	269	245	222	217	280
Sodium	468	345	499	390	451	432	380	340	469

A-27-135
A-27-090

A-27 Wells	A-27-090	A-27-090	A-27-135	A-27-135
	7/18/2013	8/26/2013	7/18/2013	8/26/2013
pH	6.4	6.2	6.44	6.34
Aluminum	0.0667	< 0.015	0.0967	0.0218
Antimony	< 0.0013	< 0.0013	0.0015	< 0.0013
Arsenic	0.0235	0.023	0.0494	0.0462
Cadmium	< 0.00050	0.00	0.0010	0.00120
Chromium	< 0.0020	< 0.0020	< 0.0020	< 0.002
Iron	0.0532	< 0.029	0.0613	< 0.029
Selenium	0.0455	0.0412	0.0546	0.0476
Major Cations				
Calcium	365	353	399	371
Magnesium	204	197	199	180
Potassium	44.7	45.2	35.2	33.2
Sodium	257	245	434	394

A-35-155
A-35-080

A-35 Wells	A-35-080	A-35-080	A-35-155	A-35-155
	7/17/2013	8/28/2013	7/18/2013	8/26/2013
pH	6.59	6.08	7.15	6.98
Aluminum	0.1360	0.8370	0.0281	< 0.015
Antimony	< 0.0013	< 0.0013	< 0.0013	< 0.0013
Arsenic	0.0132	0.0143	0.0025	0.0045
Cadmium	0.0011	0.0016	< 0.00050	< 0.0005
Chromium	< 0.0020	0.0023	< 0.0020	< 0.002
Iron	0.123	1.22	0.043	0.0297
Selenium	0.0046	0.0024	0.003	< 0.0020
Major Cations				
Calcium	464	435	378	365
Magnesium	310	281	168	162
Potassium	50.7	46	9.39	9.32
Sodium	240	216	79.9	79.2

A-36-145
A-36-105

A-36 Wells	A-36-105	A-36-105	A-36-145	A-36-145
	7/17/2013	8/28/2013	7/17/2013	8/28/2013
pH	6.24	5.18	7.06	7.14
Aluminum	0.207	11.4	0.0432	0.0318
Antimony	0.006	< 0.0013	< 0.0013	< 0.0026
Arsenic	< 0.0025	0.0033	< 0.0025	0.003
Cadmium	0.0421	0.0844	< 0.0005	< 0.0010
Chromium	< 0.002	0.0046	< 0.0020	< 0.0040
Iron	0.0371	4.51	0.161	0.474
Selenium	0.0224	0.0026	< 0.0020	< 0.0040
Major Cations				
Calcium	441	303	590	621
Magnesium	516	375	376	377
Potassium	45.2	28.6	10	10.4
Sodium	209	189	104	109

MW-A-110

MW-A-110	7/19/2013	8/29/2013
pH	5.61	5.65
Aluminum	2.86	2.46
Antimony	<0.0013	< 0.0013
Arsenic	0.007	0.0086
Cadmium	0.025	0.0215
Chromium	< 0.0020	< 0.0020
Iron	< 0.029	0.079
Selenium	0.0109	0.0025
Major Cations		
Calcium	340	345
Magnesium	238	236
Potassium	23.7	23.3
Sodium	146	144

MW-B-120

MW-B-120	7/19/2013	8/29/2013
pH	7.01	6.95
Aluminum	0.466	1.34
Antimony	< 0.0013	< 0.0013
Arsenic	< 0.0025	< 0.0025
Cadmium	0.0029	0.0039
Chromium	< 0.0020	< 0.0020
Iron	< 0.029	0.435
Selenium	0.0261	0.0226
Major Cations		
Calcium	134	139
Magnesium	49.5	53.4
Potassium	4.44	4.79
Sodium	30.3	32

NW-9

NW-9	7/18/2013	8/29/2013
pH	6.68	5.6
Aluminum	3.65	3.28
Antimony	< 0.0013	< 0.0013
Arsenic	0.005	0.0037
Cadmium	0.0094	0.0086
Chromium	< 0.002	< 0.002
Iron	0.109	< 0.029
Selenium	0.0143	0.0102
Major Cations		
Calcium	231	228
Magnesium	96.5	94.3
Potassium	7.69	7.48
Sodium	65.4	66.2

NW-1

SCALE

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100 0 100 200
SCALE, FEET

Drawing Number 00036785-D03

FIGURE 9

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GROUNDWATER SAMPLING ANALYTICAL RESULTS FOR METALS AND pH MAIN PROCESSING AREA

NU-WEST CPO FACILITY
SODA SPRINGS, IDAHO

PREPARED FOR
NU-WEST INDUSTRIES, INC.
SODA SPRINGS, IDAHO

DRAWN BY	RAZ 09062013
CHECKED	MJG 09192013
APPROVED	

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REV	DESCRIPTION		
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3	Revised:	Chkd:	Appr.:

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D

HAZARDOUSE WASTE STORAGE BUILDING

SANITARY SEWER LAGOON

SANITARY SEWER LAGOON

SANITARY SEWER LAGOON

SUBSTATION

OPEN STORAGE

OPEN STORAGE

OPEN STORAGE

OPEN STORAGE

OPEN STORAGE

A-45-027

A-47-034

A-43-017

A-44-024

A-43-019

A-34-022

A-37-025

A-39-023

A-40-023

A-41-031

A-42-020

A-48-026

A-46-028

FH

END

CB

TC

LEGEND

- MONITORING WELL LOCATION
- PRODUCTION WELL LOCATION
- LINER
- EPA MCL — EPA MAXIMUM CONTAMINANT LEVELS
- ID GWS — IDAHO PRIMARY AND SECONDARY GROUNDWATER QUALITY STANDARDS
- EXCEED ONE OR MORE GROUNDWATER SCREENING CRITERIA
- NA — NOT ANALYZED
- NS — NO STANDARD

Groundwater Screening Criteria (mg/l)

	EPA MCL	ID GWS
Bicarbonate	NS	NS
Chloride	NS	250
Fluoride	4	4
Nitrate	10	10
Sulfate	NS	250
Orthophosphate	NS	NS
TDS	NS	500

NOTE: ALL CONCENTRATIONS IN mg/l.

A-34-022	7/5/2013	7/11/2013	7/18/2013	7/25/2013	8/1/2013	8/8/2013	8/15/2013	8/22/2013	8/29/2013
Bicarbonate	--	--	--	--	--	--	--	--	--
Chloride	158	186	136	275	143	156	118.0	140	157
Fluoride	3,840	3,610	4,650	4,190	5,350	4,720	4,050	3,630	3,320
Nitrate as N	7.6	7.6	7.8	7.9	7	5.8	5.1	5.3	9.9
Sulfate	8,850	8,970	9,630	9,190	8,450	8,610	7,990	8,790	7,350
Orthophosphate	1,500	1,150	1,730	1,550	1,450	1,500	1,390	1,240	1,060
Total Dissolved Solids	16,900	14,300	19,600	16,200	15,900	15,900	15,800	15,500	13,700

A-27-135
A-27-090

A-27 Wells	A-27-090	A-27-090	A-27-135	A-27-135
	7/18/2013	8/26/2013	7/18/2013	8/26/2013
Bicarbonate	810	822	1,088	1,142
Chloride	43.3	45.7	71.7	72.2
Fluoride	< 1.5	< 1.5	< 1.5	< 1.5
Nitrate as N	76.9	81.1	43.2	44.9
Sulfate	1,630	1,620	1,660	1,640
Orthophosphate	55	37.2	58.7	42.9
Total Dissolved Solids	4,150	3,190	2,770	4,020

A-35-155
A-35-080

A-35 Wells	A-35-080	A-35-080	A-35-155	A-35-155
	7/17/2013	8/28/2013	7/18/2013	8/26/2013
Bicarbonate	760	961	420	508
Chloride	174	164	35.5	42.4
Fluoride	< 1.5	< 1.5	< 0.60	< 0.60
Nitrate as N	69	64.2	1.5	2.1
Sulfate	2,150	2,150	1,350	1,330
Orthophosphate	31.8	25.9	0.69	0.61
Total Dissolved Solids	4,670	3,830	2,460	2,350

A-36-145
A-36-105

A-36 Wells	A-36-105	A-36-105	A-36-145	A-36-145
	7/17/2013	8/28/2013	7/17/2013	8/28/2013
Bicarbonate	195	74	683	777
Chloride	3.3	102	77.4	87.7
Fluoride	< 1.5	44.7	< 1.5	< 1.5
Nitrate as N	< 0.050	12.5	< 1.3	< 1.3
Sulfate	3,770	3,910	2,740	2,610
Orthophosphate	< 0.020	0.11	0.33	0.13
Total Dissolved Solids	4,660	6,180	4,540	4,360

MW-A-110

MW-A-110	7/19/2013	8/29/2013
Bicarbonate	65	103
Chloride	400	403
Fluoride	9	11.8
Nitrate as N	230	223
Sulfate	1,020	1,030
Orthophosphate	19.3	11.5
Total Dissolved Solids	5,200	2,840

MW-B-120

MW-B-120	7/19/2013	8/29/2013
Bicarbonate	259	301
Chloride	26.6	28.7
Fluoride	20.9	19.5
Nitrate as N	3.2	3.4
Sulfate	268	275
Orthophosphate	2.5	1.7
Total Dissolved Solids	1,010	715

NW-9

NW-9	7/18/2013	8/29/2013
Bicarbonate	281	312
Chloride	91.3	89.3
Fluoride	16.3	14.3
Nitrate as N	25.2	26.2
Sulfate	597	595
Orthophosphate	8.3	3.5
Total Dissolved Solids	1,850	1,470

NW-1

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100 0 100 200
SCALE, FEET

Drawing Number 00036785-D04

FIGURE 10

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GROUNDWATER SAMPLING ANALYTICAL RESULTS FOR WET CHEMISTRY PARAMETERS MAIN PROCESSING AREA

NU-WEST CPO FACILITY
SODA SPRINGS, IDAHO

PREPARED FOR
NU-WEST INDUSTRIES, INC.
SODA SPRINGS, IDAHO

DRAWN BY RAZ 09062013
CHECKED MJG 09192013
APPROVED

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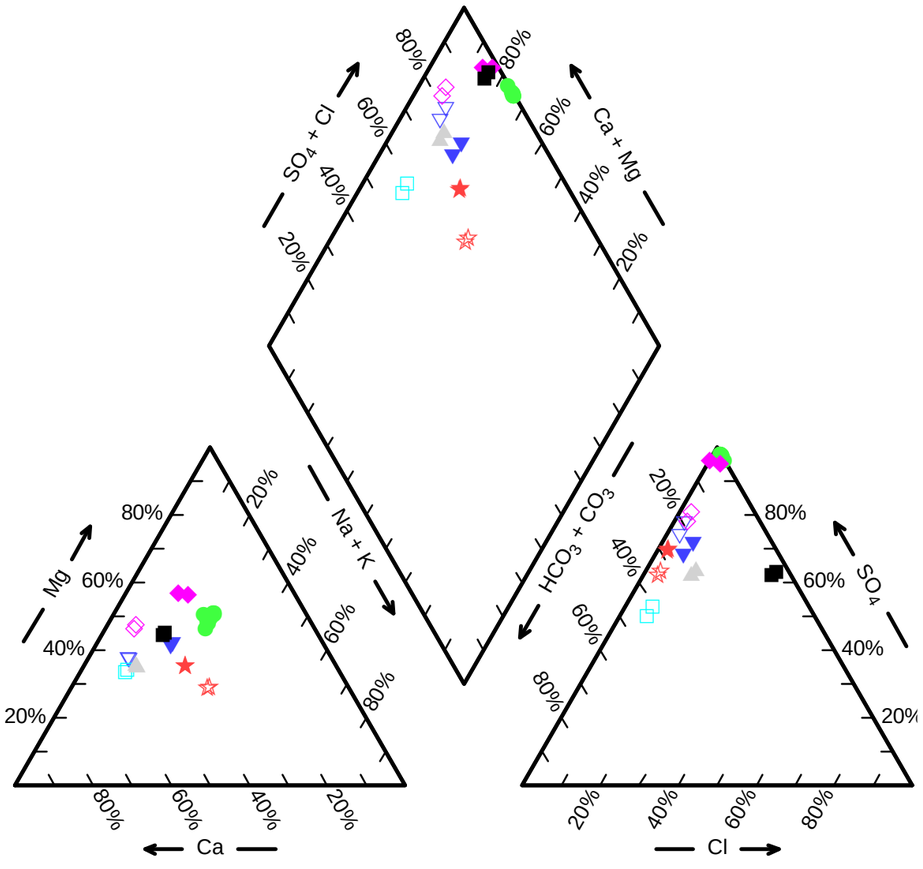
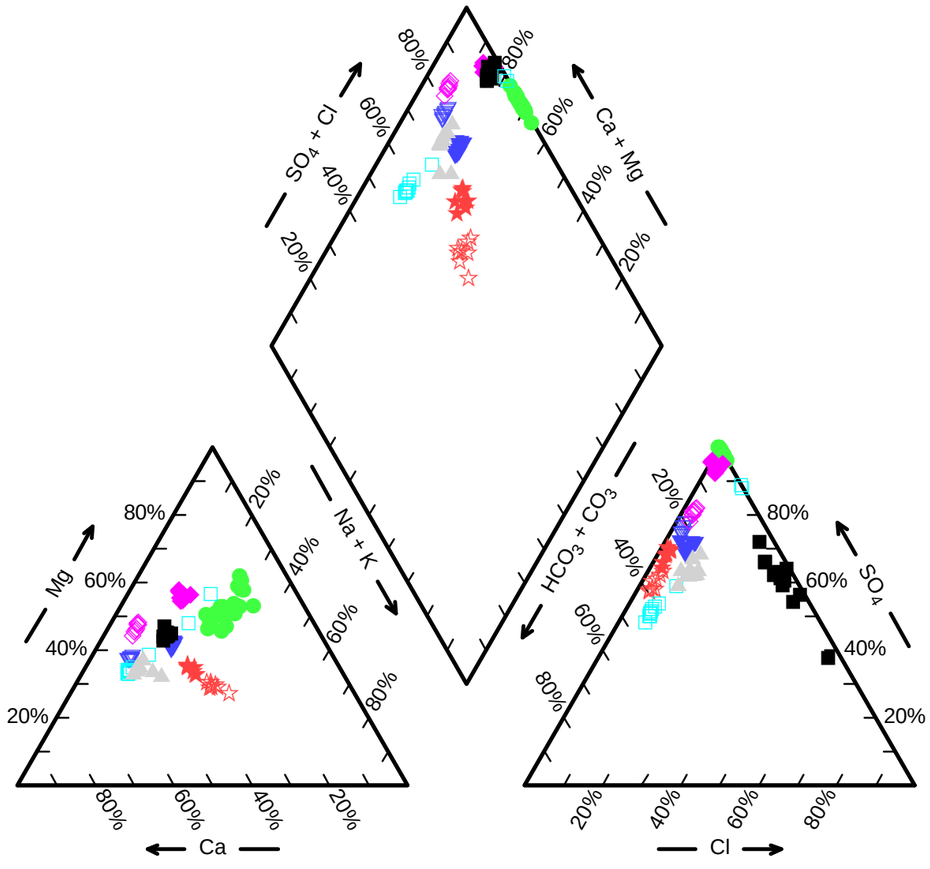


SAMPLES COLLECTED JULY 5 — AUGUST 29, 2013



SAMPLES COLLECTED OCTOBER 2010 — AUGUST 2013

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FIGURE 11

PIPER DIAGRAM
GROUNDWATER SAMPLING RESULTS
MAIN PROCESSING AREA

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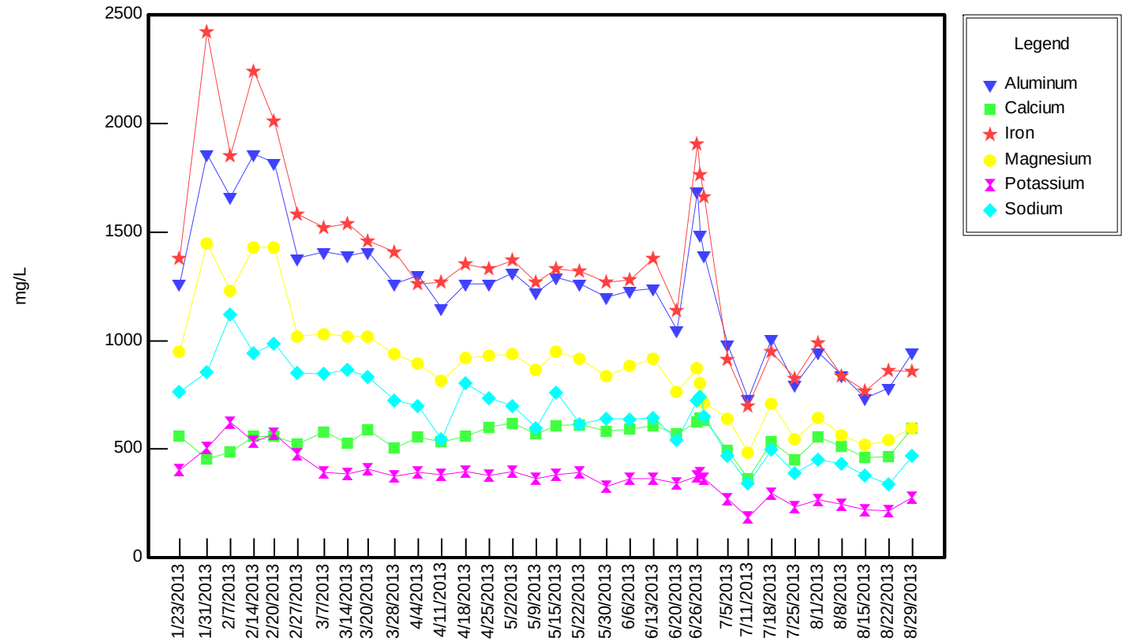
Denver, Colorado 80237
(303) 850-9200
www.wspenvironmental.com/usa

A-34-022 - MAJOR CATION CONCENTRATIONS



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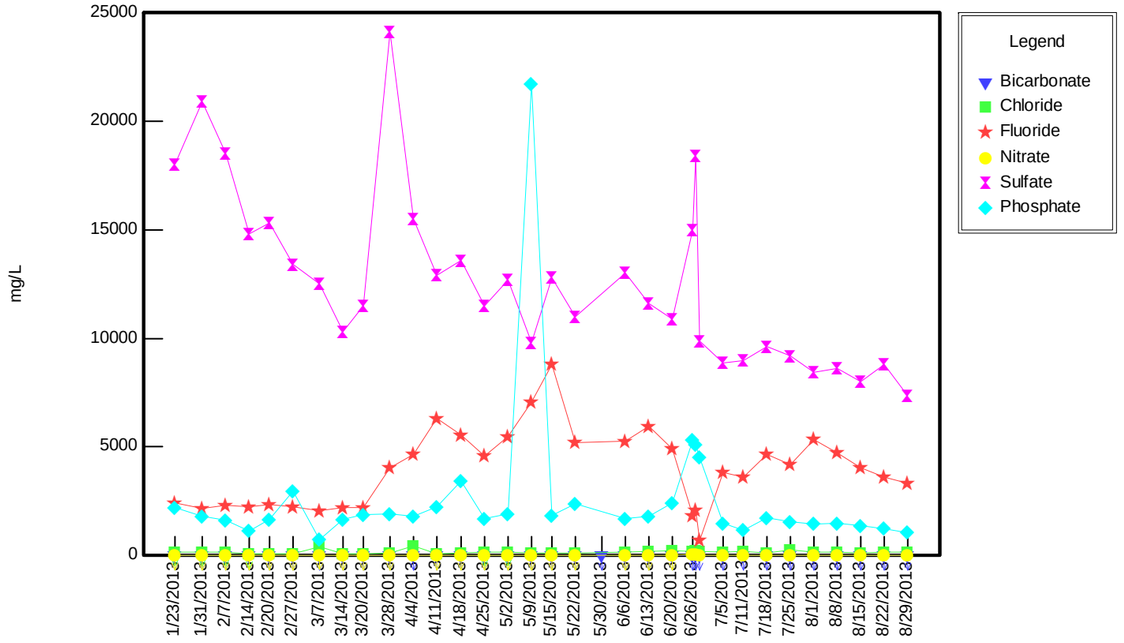
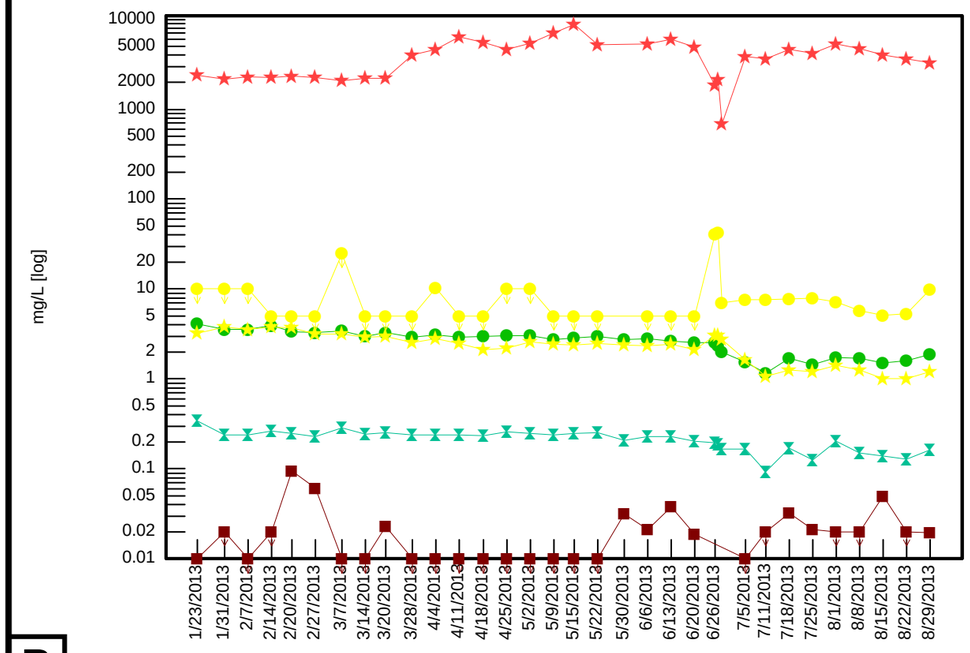


A-34-022 - CONCENTRATIONS ABOVE MCLS AND IDAHO PRIMARY GWS



	MCL (mg/l)	ID PRIMARY GWS
ANTIMONY	0.006	0.006
ARSENIC	0.01	0.05
CADMIUM	0.005	0.005
CHROMIUM	0.1	0.1
SELENIUM	0.05	0.05
FLUORIDE	4	4
NITRATE	10	10

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FIGURE 12

A-34-022 GROUNDWATER SAMPLING RESULTS

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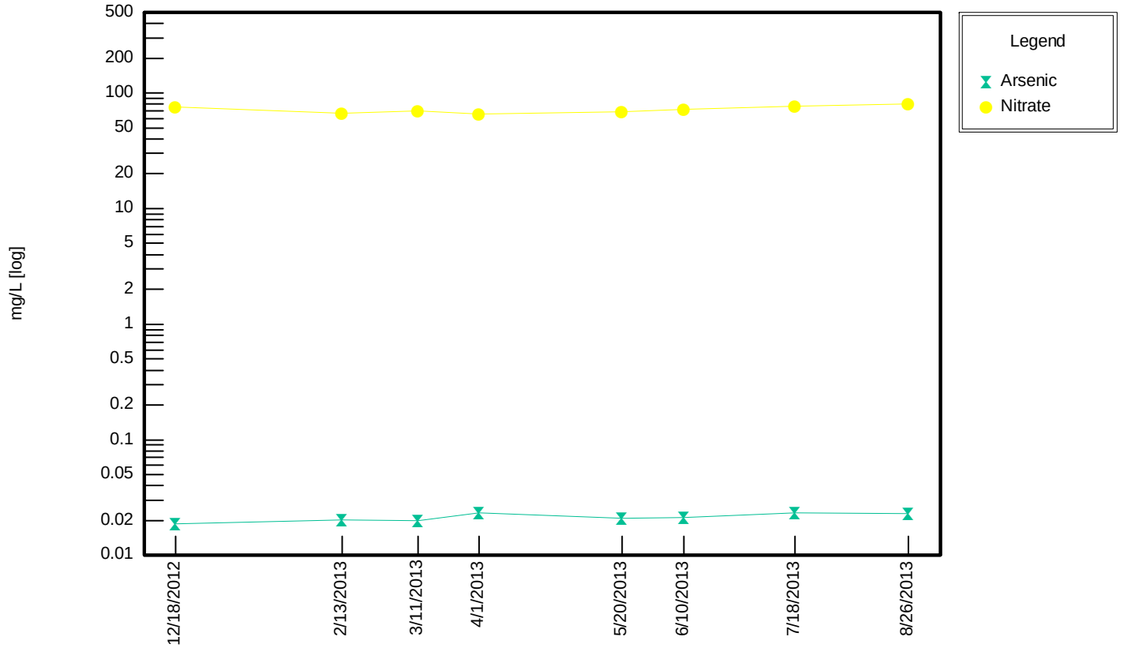
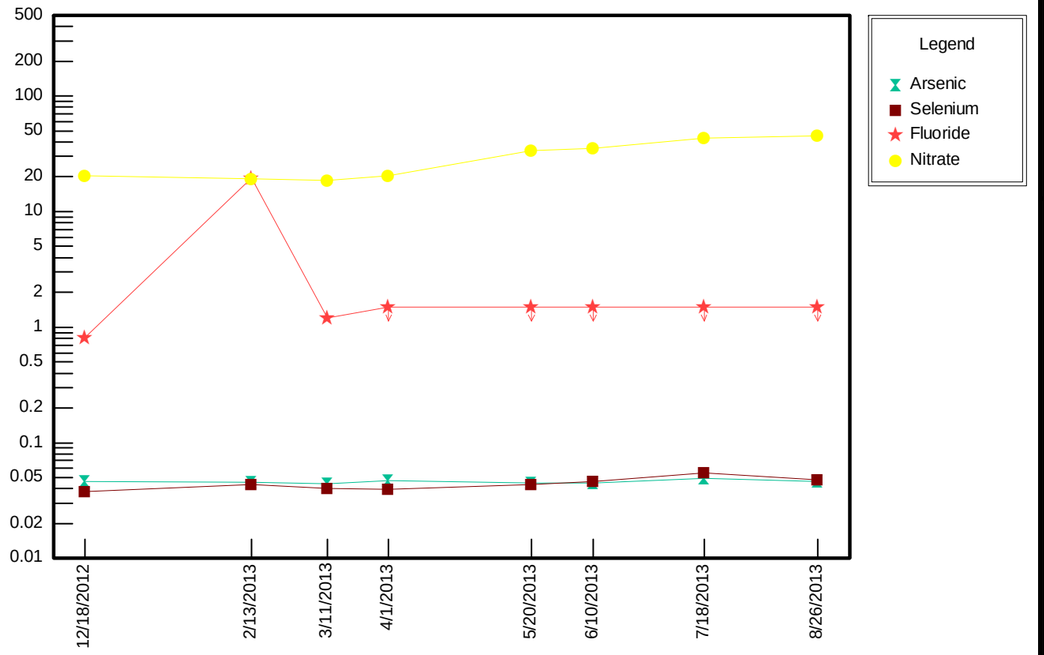
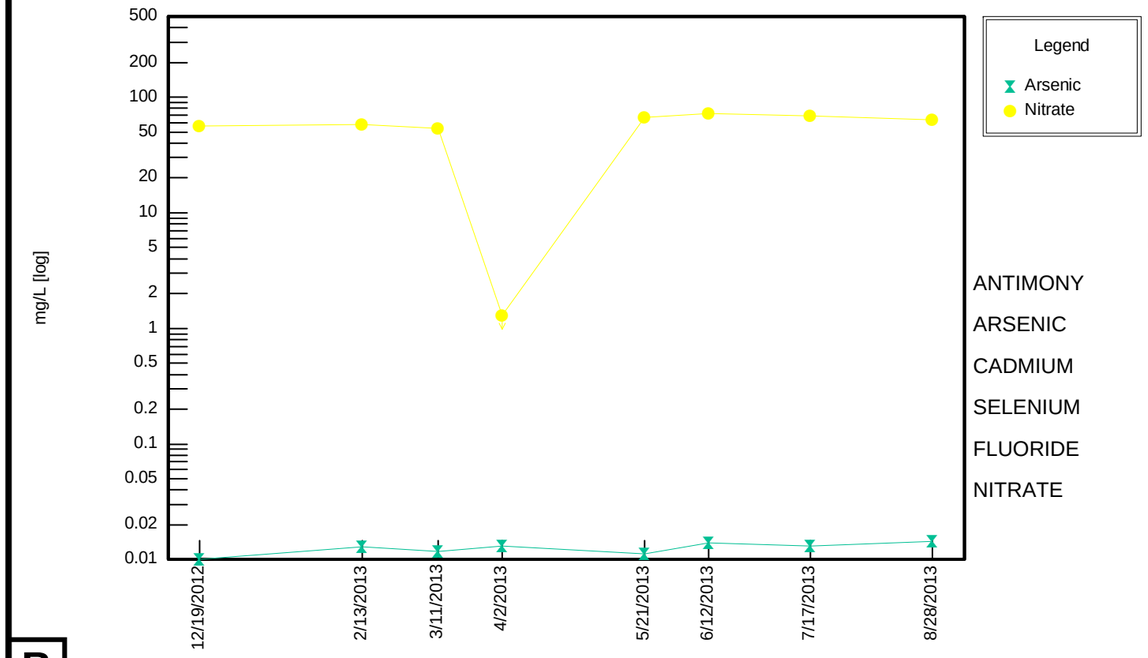
A-27-090 - CONCENTRATIONS ABOVE MCLS AND IDAHO PRIMARY GWS



A-27-135 - CONCENTRATIONS ABOVE MCLS AND IDAHO PRIMARY GWS



A-35-080 - CONCENTRATIONS ABOVE MCLS AND IDAHO PRIMARY GWS



	MCL (mg/l)	ID PRIMARY GWS
ANTIMONY	0.006	0.006
ARSENIC	0.01	0.05
CADMIUM	0.005	0.005
SELENIUM	0.05	0.05
FLUORIDE	4	4
NITRATE	10	10

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FIGURE 13

A-27-090, A-27-135, AND A-35-080
GROUNDWATER SAMPLING RESULTS

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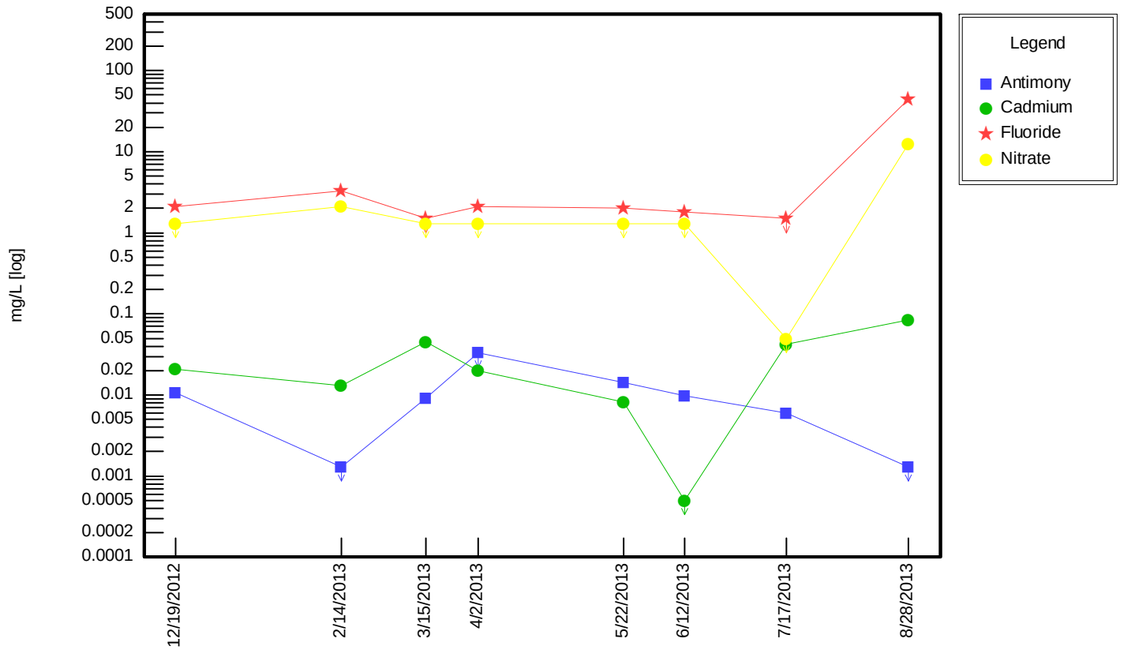
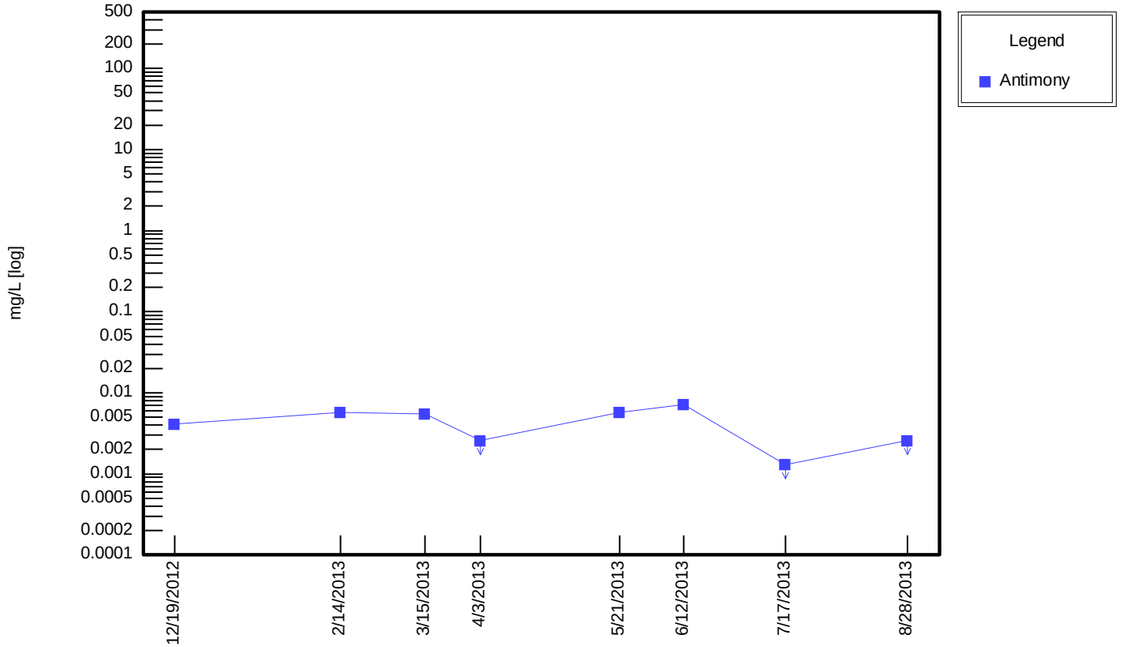
A-36-105 - CONCENTRATIONS ABOVE MCLS AND IDAHO PRIMARY GWS



A-36-145 - CONCENTRATIONS ABOVE MCLS AND IDAHO PRIMARY GWS



	MCL (mg/l)	ID PRIMARY GWS
ANTIMONY	0.006	0.006
ARSENIC	0.01	0.05
CADMIUM	0.005	0.005
SELENIUM	0.05	0.05
FLUORIDE	4	4
NITRATE	10	10

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FIGURE 14

A-36-105 AND A-36-145
GROUNDWATER SAMPLING RESULTS

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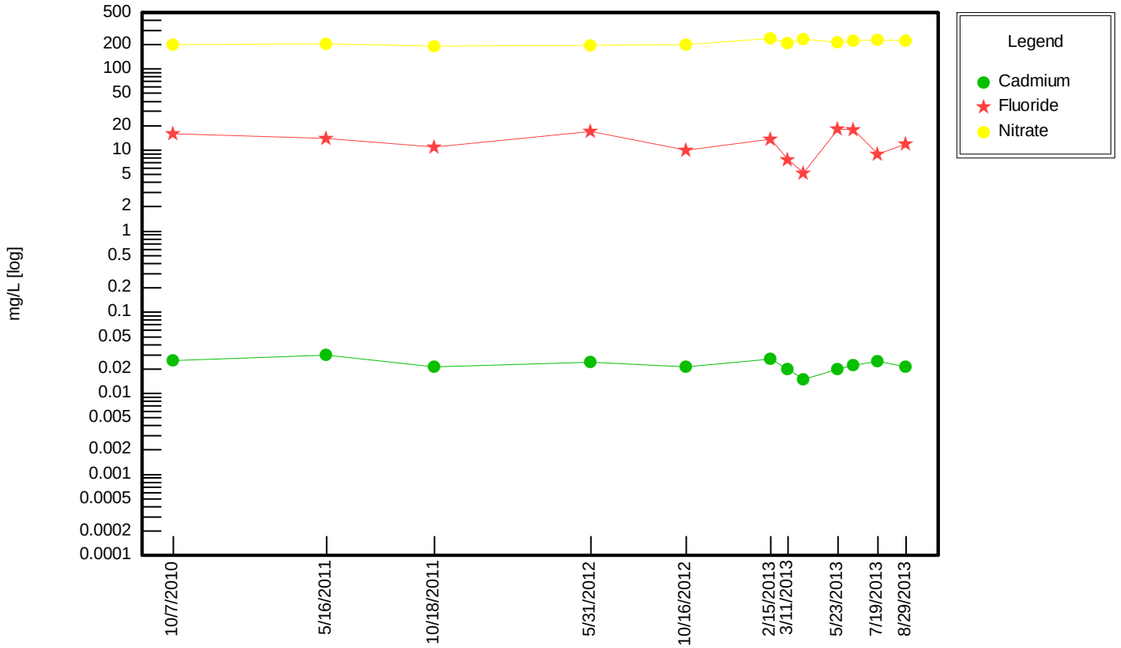
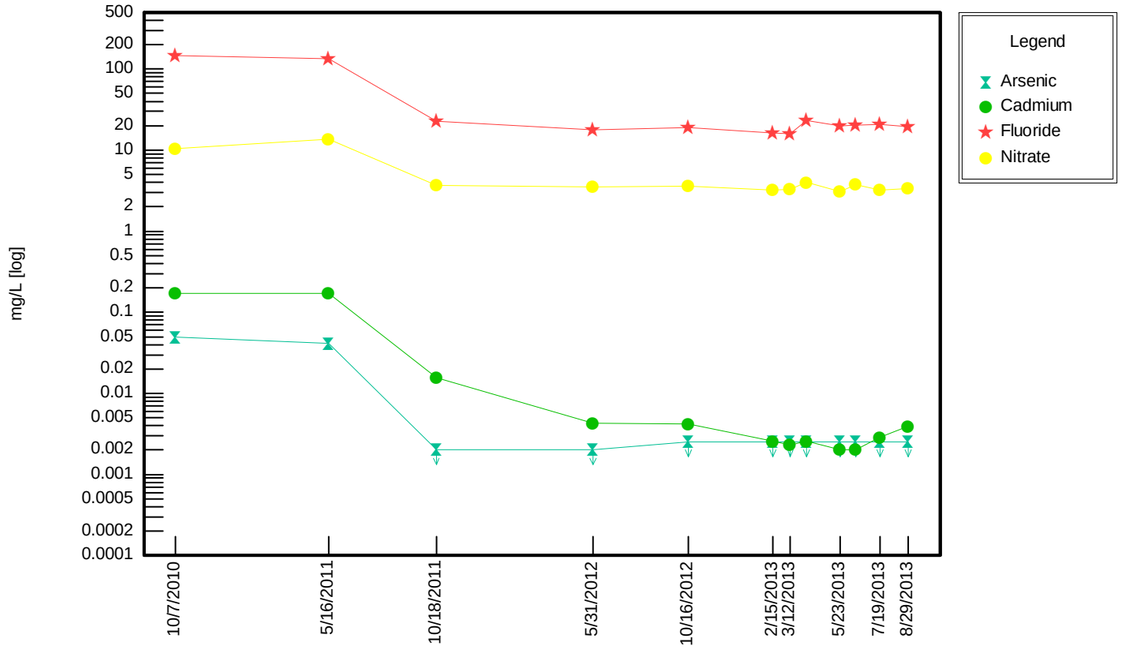
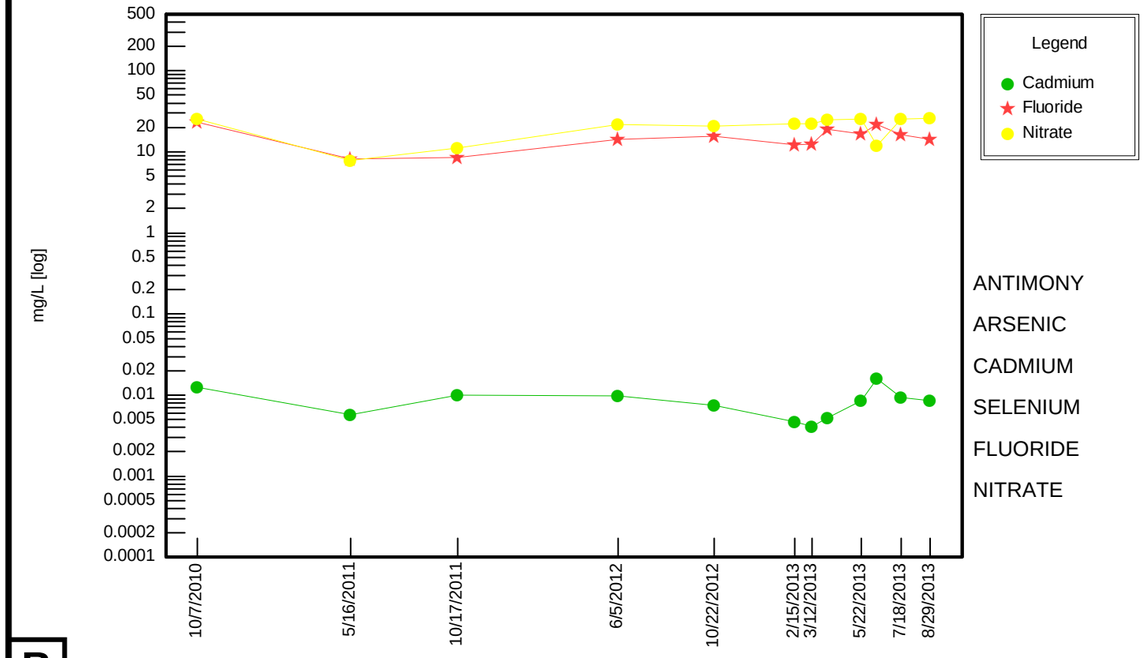
MW-A-110 - CONCENTRATIONS ABOVE MCLS AND IDAHO PRIMARY GWS



MW-B-120 - CONCENTRATIONS ABOVE MCLS AND IDAHO PRIMARY GWS



NW-9 - CONCENTRATIONS ABOVE MCLS AND IDAHO PRIMARY GWS



	MCL (mg/l)	ID PRIMARY GWS
ANTIMONY	0.006	0.006
ARSENIC	0.01	0.05
CADMIUM	0.005	0.005
SELENIUM	0.05	0.05
FLUORIDE	4	4
NITRATE	10	10

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FIGURE 15

MW-A-110, MW-B-120, AND NW-9
GROUNDWATER SAMPLING RESULTS

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B

Tables

Table 1 – Monitoring and Production Well Construction Summary
Table 2 – Bedrock Groundwater Elevation Data – December 2012 through August 2013
Table 3 – A-34 Area Groundwater Elevation Data – December 2012 through August 2013
Table 4 – Historical Bedrock Groundwater Elevation Data
Table 5 – Groundwater Sampling Field Parameters – Main Processing Area Groundwater Monitoring Program
Table 6 – A-34-022 Groundwater Sampling Analytical Results for Metals and Wet Chemistry Parameters – Main Processing Area Groundwater Monitoring Program – July 5 through August 29, 2013
Table 7 – Bedrock Groundwater Sampling Analytical Results for Metals and Wet Chemistry Parameters – Main Processing Area Groundwater Monitoring Program – July 17 through August 29, 2013
Table 8 – Historical Groundwater Sampling Analytical Results for Metals and General Chemistry Parameters

Table 1

Monitoring and Production Well Construction Summary
Nu-West CPO Facility
Soda Springs, Idaho

Well ID	Old Well ID	Screened Aquifer	Easting[a] (ft)	Northing[a] (ft)	Ground Surface Elevation (ft-amsl)	Top of Casing[a] (ft-amsl)	Casing Diameter (inches)	Well Depth[b] (ft btoc)	Borehole Depth[b] (ft bgs)	Approximate Screened Interval (ft-bgs)			Approximate Screened Interval (ft-amsl)			Date Installed
Bedrock Groundwater Monitoring Wells																
A-02-167	A-2A	Basalt	820544.12	400540.51	6159.38	6161.00	2	167	200	97	to	167	6062	to	5992	Dec-03
A-03-108	A-3	Basalt	819996.64	392893.30	6151.44	6152.88	2	108	108	88	to	108	6063	to	6043	Nov-99
A-04-075	--	Basalt	--	--	--	--	4	75	75	65	to	75	--	to	--	Aug-13
A-04-115	A-4	Basalt	820786.10	393211.89	6151.52	6153.07	2	115	115	95	to	115	6057	to	6037	Nov-99
A-05-193	A-5	Sedimentary	820189.32	392253.47	6151.78	6153.50	2	213	213	173	to	193	5979	to	5959	Nov-99
A-06-118	A-6	Sedimentary	820201.53	392232.77	6151.75	6153.22	2	118	118	98	to	118	6054	to	6034	Nov-99
A-07-120	A-7	Basalt	820806.68	391329.12	6151.61	6153.42	2	120	120	100	to	120	6052	to	6032	Nov-99
A-08-127	A-8	Basalt	819947.89	391175.75	6150.30	6151.89	2	127	127	107	to	127	6043	to	6023	Nov-99
--	A-9[c]	Basalt	--	--	--	--	2	98.5	98.5	88	to	98	--	to	--	Nov-99
A-09-150	A-9A	Basalt	819825.71	390298.36	6148.04	6149.82	2	150/149	150	90	to	150	6058	to	5998	Aug-01
A-10-199	A-10	Basalt	818091.11	387443.80	6125.62	6127.76	2	199	199	139	to	199	5987	to	5927	Oct-02
A-11-140	A-11	Basalt	819043.56	392614.92	6150.49	6151.99	2	140/142	148	100	to	140	6050	to	6010	May-07
A-12-110	A-12	Basalt	818841.79	392584.25	6127.58	6129.81	2	110/115	148	70	to	110	6058	to	6018	May-07
A-13-135	A-13	Sedimentary	825815.20	390620.46	6204.03	6205.29	2	135	200	115	to	135	6089	to	6069	Sep-11
A-14-180	A-14	Sedimentary	825200.57	392788.79	6191.14	6192.49	2	180	200	160	to	180	6031	to	6011	Oct-11
A-15-105	A-15	Basalt	825194.39	392808.60	6191.05	6192.43	2	105	105	85	to	105	6106	to	6086	Oct-11
A-16-190	A-16	Sedimentary	824928.23	395736.62	6243.79	6244.87	2	190	200	170	to	190	6074	to	6054	Oct-11
A-17-150	A-17	Sedimentary	824724.58	399771.64	6198.00	6198.86	2	150	200	130	to	150	6068	to	6048	Sep-11
A-18-110	A-18	Basalt	820813.86	390853.89	6150.50	6151.31	2	110	200	90	to	110	6061	to	6041	Oct-11
A-19-095	A-19	Basalt	820809.63	391375.09	6151.80	6152.03	2	95	95	75	to	95	6077	to	6057	Oct-11
A-19-240	--	Sedimentary	--	--	--	--	4	240	260	230	to	240	--	to	--	Aug-13
A-20-056	A-20S	Basalt	820804.31	391964.13	6154.81	6156.17	1	56	56	36	to	56	6119	to	6099	Oct-11
A-20-090	A-20D	Basalt	820804.17	391964.47	6154.81	6156.03	2	90	90	70	to	90	6085	to	6065	Oct-11
A-21-185	A-21	Sedimentary	820797.38	392986.78	6152.74	6154.83	2	185	185	165	to	185	5988	to	5968	Nov-11
A-22-063	--	Basalt	820788.61	393681.70	6152.62	6153.93	4	63	75.3	53	to	63	6100	to	6090	Nov-12
A-23-095	A-23	Basalt	820779.59	394629.10	6151.56	6152.22	2	95	95	75	to	95	6077	to	6057	Nov-11
A-25-085	A-25S	Basalt	820744.86	396000.35	6156.00	6157.43	2	85	65	65	to	85	6091	to	6071	Nov-11
A-25-185	A-25D	Basalt	820745.16	396000.39	6156.00	6157.36	2	185	185	165	to	185	5991	to	5971	Nov-11
A-26-060	--	Basalt	820799.27	392504.95	6154.31	6155.29	4	60	100	50	to	60	6104	to	6094	Nov-12
A-26-125	--	Sedimentary	--	--	--	--	4	125	136	115	to	125	--	to	--	Aug-13
A-27-090	--	Basalt	822991.57	391084.11	6151.64	6153.36	4	90	90	70	to	90	6082	to	6062	Oct-12
A-27-135	--	Basalt	822990.22	391095.71	6151.47	6152.80	4	135	138	125	to	135	6026	to	6016	Oct-12
A-28-110	--	Basalt	820980.95	388945.81	6141.02	6142.74	4	110	110	90	to	110	6051	to	6031	Oct-12
A-28-165	--	Basalt	820999.73	388948.71	6140.94	6142.75	4	165	173	145	to	165	5996	to	5976	Oct-12

Table 1

Monitoring and Production Well Construction Summary
Nu-West CPO Facility
Soda Springs, Idaho

Well ID	Old Well ID	Screened Aquifer	Easting[a] (ft)	Northing[a] (ft)	Ground Surface Elevation (ft-amsl)	Top of Casing[a] (ft-amsl)	Casing Diameter (inches)	Well Depth[b] (ft btoc)	Borehole Depth[b] (ft bgs)	Approximate Screened Interval (ft-bgs)			Approximate Screened Interval (ft-amsl)			Date Installed
Bedrock Groundwater Monitoring Wells																
A-29-145	--	Basalt	820326.66	388752.06	6145.92	6147.75	4	145	145	135	to	145	6011	to	6001	Oct-12
A-29-195	--	Basalt	820330.40	388770.83	6145.92	6147.62	4	195	195.5	180	to	195	5966	to	5951	Oct-12
A-30-135	--	Basalt	820056.30	388694.90	6114.91	6116.40	4	135	135	125	to	135	5990	to	5980	Nov-12
A-30-175	--	Basalt	820056.63	388715.75	6115.35	6116.84	4	175	175	165	to	175	5950	to	5940	Nov-12
A-31-130	--	Basalt	819692.67	389490.29	6115.33	6117.10	4	130	130	110	to	130	6005	to	5985	Nov-12
A-31-170	--	Basalt	819697.81	389474.31	6115.39	6117.80	4	170	175	150	to	170	5965	to	5945	Nov-12
A-32-110	--	Basalt	819460.41	390194.48	6117.63	6118.35	4	110	110	90	to	110	6028	to	6008	Nov-12
A-32-150	--	Basalt	819453.76	390212.48	6117.83	6118.91	4	150	156	130	to	150	5988	to	5968	Nov-12
A-33-070	--	Basalt	823551.71	390307.71	6158.29	6160.43	4	70	70	60	to	70	6098	to	6088	Jul-13
A-33-170	--	Basalt	823529.59	390317.66	6158.44	6160.59	4	170	170	160	to	170	5998	to	5988	Jul-13
A-35-080	--	Basalt	823571.75	391055.18	6157.39	6159.01	4	80	81	60	to	80	6097	to	6077	Nov-12
A-35-155	--	Basalt	823568.67	391073.65	6157.37	6158.92	4	155	156	135	to	155	6022	to	6002	Nov-12
A-36-105	--	Basalt-Sedimentary	823966.68	391048.63	6159.44	6160.48	4	105	105	95	to	105	6064	to	6054	Dec-12
A-36-145	--	Sedimentary	823945.97	391046.53	6159.36	6160.54	4	145	147	125	to	145	6034	to	6014	Dec-12
A-47-080	--	Basalt	824071.05	392160.00	6159.11	6161.17	4	80	80	70	to	80	6089	to	6079	Jul-13
A-47-140	--	Basalt	824071.32	392139.51	6159.20	6161.34	4	140	140	130	to	140	6029	to	6019	Jul-13
A-47-175	--	Sedimentary	824071.30	392119.71	6159.20	6161.33	4	175	200	160	to	175	5999	to	5984	Jul-13
A-49-095	--	Basalt	822121.26	389715.01	6145.73	6147.82	4	95	100	85	to	95	6061	to	6051	Jul-13
A-49-135	--	Basalt	822142.23	389759.22	6146.16	6148.24	4	135	135	125	to	135	6021	to	6011	Jul-13
A-49-185	--	Sedimentary	822131.62	389736.97	6146.16	6148.10	4	185	196	175	to	185	5971	to	5961	Jul-13
A-50-070	--	Basalt	824682.64	389547.74	6180.40	6182.92	4	70	80	60	to	70	6120	to	6110	Jun-13
A-50-100	--	Basalt	824643.48	389542.78	6180.87	6183.28	4	100	101	90	to	100	6091	to	6081	Jul-13
A-50-125	--	Sedimentary	824662.50	389545.29	6180.58	6183.03	4	125	156	115	to	125	6066	to	6056	Jul-13
A-51-070	--	Basalt	820789.68	394128.84	6153.10	6155.07	4	70	80	60	to	70	6093	to	6083	Jul-13
A-51-125	--	Basalt	820790.42	394109.41	6153.06	6155.25	4	125	80	110	to	125	6043	to	6028	Jul-13
A-51-185	--	Basalt	820790.58	394089.77	6153.42	6155.52	4	185	186	170	to	185	5983	to	5968	Jul-13
A-51-225	--	Sedimentary	820790.92	394071.35	6153.36	6155.46	4	225	258	210	to	225	5943	to	5928	Jul-13
A-52-285	--	Basalt	--	--	--	--	4	285	291	270	to	285	--	to	--	Aug-13
A-53-165	--	Basalt	--	--	--	--	4	165	175	150	to	165	--	to	--	Oct-13
A-53-235	--	Basalt	--	--	--	--	4	235	248	225	to	235	--	to	--	Oct-13
A-54-135	--	Basalt	820438.49	387726.80	6140.17	6142.33	4	135	135	115	to	135	6025	to	6005	Aug-13
A-54-225	--	Basalt	820442.81	387707.61	6140.33	6142.41	4	225	255	210	to	225	5930	to	5915	Aug-13
A-54-310	--	Sedimentary	820446.46	387688.45	6140.33	6142.54	4	310	312	290	to	310	5850	to	5830	Jul-13

Table 1

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Nu-West CPO Facility
Soda Springs, Idaho

Well ID	Old Well ID	Screened Aquifer	Easting[a] (ft)	Northing[a] (ft)	Ground Surface Elevation (ft-amsl)	Top of Casing[a] (ft-amsl)	Casing Diameter (inches)	Well Depth[b] (ft btoc)	Borehole Depth[b] (ft bgs)	Approximate Screened Interval (ft-bgs)			Approximate Screened Interval (ft-amsl)			Date Installed
Bedrock Groundwater Monitoring Wells																
A-55-155	--	Basalt	820753.10	390306.34	6153.95	6156.06	4	155	155	145	to	155	6009	to	5999	Aug-13
A-55-195	--	Basalt	820768.22	390322.35	6153.97	6155.91	4	195	195	185	to	195	5969	to	5959	Aug-13
A-55-230	--	Basalt	820782.33	390336.98	6153.90	6155.97	4	230	245	220	to	230	5934	to	5924	Aug-13
A-56-135	--	Basalt	--	--	--	--	4	135	135	120	to	135	--	to	--	Sep-13
A-56-205	--	Basalt	--	--	--	--	4	205	205	195	to	205	--	to	--	Sep-13
A-56-280	--	Basalt	--	--	--	--	4	280	280	270	to	280	--	to	--	Sep-13
A-56-325	--	Sedimentary	--	--	--	--	4	325	327	305	to	325	--	to	--	Sep-13
A-57-270	--	Basalt	--	--	--	--	4	270	272	255	to	270	--	to	--	Oct-13
A-57-380	--	Basalt	--	--	--	--	4	380	391	360	to	380	--	to	--	Oct-13
MW05-1-265	MW05-1	Basalt	817949.06	403417.25	6164.85	6165.86	2	265	265	165	to	265	6000	to	5900	Aug-05
MW05-2-100	MW05-2	Basalt	819953.80	401712.50	6163.04	6164.11	2	100/97	345	20	to	100	6143	to	6063	Aug-05
MW05-3-240	MW05-3	Basalt	819158.98	396899.51	6154.07	6154.98	2	240	247	140	to	240	6014	to	5914	Aug-05
MW05-4-260	MW05-4	Basalt	817856.40	396854.85	6173.41	6173.76	2	260	265	160	to	260	6013	to	5913	Aug-05
MW05-5-240	MW05-5	Basalt	818066.73	395406.20	6179.40	6181.07	2	240/259	240	140	to	240	6039	to	5939	Aug-05
MW-A-110	MW-A	Basalt-Sedimentary	823693.47	390162.21	6157.85	6159.21	2	110	110	60	to	110	6098	to	6048	Nov-04
MW-B-120	MW-B	Basalt-Sedimentary	824066.30	390129.59	6166.09	6167.75	2	120	120	60	to	120	6106	to	6046	Nov-04

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Nu-West CPO Facility
Soda Springs, Idaho

Well ID	Old Well ID	Screened Aquifer	Easting[a] (ft)	Northing[a] (ft)	Ground Surface Elevation (ft-amsl)	Top of Casing[a] (ft-amsl)	Casing Diameter (inches)	Well Depth[b] (ft btoc)	Borehole Depth[b] (ft bgs)	Approximate Screened Interval (ft-bgs)			Approximate Screened Interval (ft-amsl)			Date Installed
Alluvial Aquifer and Soil-Bedrock Interface Groundwater Monitoring Wells																
A-01-065	A-1	Alluvial	825188.39	400820.47	6222.89	6225.04	2	65	65	55	to	65	6168	to	6158	Nov-99
--	A-2[c,d]	Alluvial	820631.94	399154.36	6159.38	6158.62	2	30	30	20	to	30	6139	to	6129	Nov-99
A-34-022	--	Soil-Bedrock	824127.60	391848.79	6160.86	6162.28	4	22	22	12	to	22	6149	to	6139	Nov-12
A-37-025	--	Soil-Bedrock	824162.10	391852.74	6163.04	6163.63	4	25	25	15	to	25	6148	to	6138	Feb-13
A-38-019	--	Soil-Bedrock	824070.12	391850.52	6159.56	6161.96	4	19	19	9	to	19	6151	to	6141	Feb-13
A-39-023	--	Soil-Bedrock	824098.82	391817.72	6159.97	6159.58	4	23	23	13	to	23	6147	to	6137	Feb-13
A-40-023	--	Soil-Bedrock	824106.24	391787.76	6160.56	6162.65	4	23	23	13	to	23	6148	to	6138	Feb-13
A-41-031	--	Soil-Bedrock	824168.66	391755.44	6161.68	6161.30	4	31	33	21	to	31	6141	to	6131	Feb-13
A-42-020	--	Soil-Bedrock	824075.77	391737.06	6159.84	6161.96	4	20	20	10	to	20	6150	to	6140	Feb-13
A-43-017	--	Soil-Bedrock	824071.89	391950.66	6159.65	6161.80	4	17	17	7	to	17	6153	to	6143	Feb-13
A-44-024	--	Soil-Bedrock	824134.95	391921.56	6160.57	6160.14	4	24	24	14	to	24	6147	to	6137	Feb-13
A-45-027	--	Soil-Bedrock	823862.82	391975.03	6159.47	6162.50	4	27	27	17	to	27	6142	to	6132	Feb-13
A-46-028	--	Soil-Bedrock	824276.03	391816.37	6160.97	6163.55	4	28	28	18	to	28	6143	to	6133	Feb-13
A-47-034	--	Soil-Bedrock	824071.86	392097.97	6159.23	6161.50	4	34	34	24	to	34	6135	to	6125	Feb-13
A-48-026	--	Soil-Bedrock	824123.77	391645.35	6161.16	6164.18	4	26	26	16	to	26	6145	to	6135	Feb-13

Table 1

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Nu-West CPO Facility
Soda Springs, Idaho

Well ID	Old Well ID	Screened Aquifer	Easting[a] (ft)	Northing[a] (ft)	Ground Surface Elevation (ft-amsl)	Top of Casing[a] (ft-amsl)	Casing Diameter (inches)	Well Depth[b] (ft btoc)	Borehole Depth[b] (ft bgs)	Approximate Screened Interval (ft-bgs)			Approximate Screened Interval (ft-amsl)			Date Installed
Nu-West Production Wells[e]																
NW-1	NW-1	Basalt-Sedimentary	823264.86	389570.21	--	--	20 & 16	280	280	45	to	240	--	to	--	Oct-64
NW-5	NW-5	Basalt	820967.45	395506.51	6154.75	--	16	272	272	50	to	260	6105	to	5895	Nov-65
NW-7	NW-7	Sedimentary	826229.32	391220.27	6245.40	--	24 & 16	503	503	104	to	465	6141	to	5780	Sep-88
NW-8	NW-8	Sedimentary	826632.55	391976.24	6308.92	--	24 & 16	600	600	367	to	527	5942	to	5782	Sep-92
NW-9	NW-9	Basalt-Sedimentary	823970.66	389904.93	6170.53	--	20 & 16	255	255	40	to	100	6131	to	6071	Feb-00
										120	to	140	6051	to	6031	
										180	to	220	5991	to	5951	
										235	to	255	5936	to	5916	
NW-10	NW-10	Basalt-Sedimentary	821736.17	400730.36	6168.68	--	20	355	355	70	to	90	6099	to	6079	--
										120	to	150	6049	to	6019	
										270	to	300	5899	to	5869	
										320	to	350	5849	to	5819	
NW-11	NW-11	Basalt	820383.01	401510.80	--	--	16	325	325	162	to	325	--	to	--	Sep-06
Mtn Fuel	Mtn Fuel	Basalt	820979.01	396814.20	6159.03	--	20 & 16	225	225	50	to	60	6109	to	6099	Jun-67
										68	to	165	6091	to	5994	
										170	to	225	5989	to	5934	
Offsite Production Wells																
JRS-7	JRS-7	Basalt-Sedimentary	821994.22	389171.98	6143.49	--	20 & 16	300	300	50	to	224	6093	to	5919	May-65
										236	to	295	5907	to	5848	
JRS-8	JRS-8	Basalt-Sedimentary	822387.96	389439.01	6146.93	--	10	97	97	62	to	97	6085	to	6050	--
JRS-10	JRS-10	Basalt-Sedimentary	821083.12	387555.18	6140.78	--	20 & 16	220	220	60	to	210	6081	to	5931	Nov-65
JRS-11	JRS-11	--	827895.88	388023.55	6236.78	--	--	--	--	--		--	--		--	--
Arr-Maz (Dagerstrom)	Arr-Maz	Basalt	818997.16	382490.05	6074.92	--	8 & 6	175	195	130	to	175	5945	to	5900	Mar-89

Table 1

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Well ID	Old Well ID	Screened Aquifer	Easting[a] (ft)	Northing[a] (ft)	Ground Surface Elevation (ft-amsl)	Top of Casing[a] (ft-amsl)	Casing Diameter (inches)	Well Depth[b] (ft btoc)	Borehole Depth[b] (ft bgs)	Approximate Screened Interval (ft-bgs)			Approximate Screened Interval (ft-amsl)		Date Installed
Offsite Domestic Wells															
Torgesen	Torgesen	Basalt	--	---	--	--	6	225	245	185	to	225	--	--	Dec-70
Lowry	Lowry	--	817852.70	384536.64	6102.08	--	--	--	--	--		--	--	--	--

-- = indicates no data are available
ft-msl = feet mean sea level; ft-bgs = feet below ground surface; ft = feet; diam = diameter;
a/ Groundwater monitoring wells were surveyed by A. A. Hudson & Associates in December 2012. Top of casing elevation refers to the elevation of the well's PVC casing. Monitoring wells installed June 2013 or later have not yet been surveyed.
b/ Well and borehole depths as reported in the well log is provided. For wells A-09-150, A-11-140, A-12-110, MW05-2-100, and MW05-5-240, the well depth measured in October 2011 is also shown, behind the back slash (i.e., "well depth in well log" / "measured well depth".
c/ Wells A-2 and A-9 have been destroyed.
d/ Well A-2 survey data reflect the location of the based of the dozed collar of the former well A-2.
e/ Production wells are housed inside a building. Shown northing and easting were taken from the corners of the building, elevation is taken from the threshold of the building.

Table 2

Bedrock Groundwater Elevation Data
December 2012 through August 2013
Nu-West CPO Facility
Soda Springs, Idaho

		Groundwater Elevation Data				Well Pair Data	
Well ID	**Date**	**TOC Elevation (feet amsl)**	**Depth to Water (feet btoc)**	**Groundwater Elevation (feet amsl)**	**Change in Elevation (feet)**	**Vertical Hydraulic Head Difference (feet)**	**Vertical Hydraulic Gradient (b)**
A-27-090	12/10/2012	6153.36	34.68	6118.68	--	1.66	-0.033
	2/11/2013		34.50	6118.86	0.18	1.28	-0.026
	3/7/2013		34.40	6118.96	0.10	1.71	-0.034
	3/11/2013		34.38	6118.98	0.02	1.84	-0.037
	4/1/2013		32.34	6121.02	2.04	2.77	-0.055
	5/17/2013		29.29	6124.07	3.05	4.22	-0.084
	6/7/2013		29.85	6123.51	-0.56	4.59	-0.092
	7/12/2013		31.54	6121.82	-1.69	4.47	-0.089
	8/26/2013		34.29	6119.07	-2.75	4.75	-0.095
A-27-135	12/10/2012	6152.80	35.78	6117.02	--	--	--
	2/11/2013		35.22	6117.58	0.56	--	--
	3/7/2013		35.55	6117.25	-0.33	--	--
	3/11/2013		35.66	6117.14	-0.11	--	--
	4/1/2013		34.55	6118.25	1.11	--	--
	5/17/2013		32.95	6119.85	1.60	--	--
	6/7/2013		33.88	6118.92	-0.93	--	--
	7/12/2013		35.45	6117.35	-1.57	--	--
	8/26/2013		38.48	6114.32	-3.03	--	--

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December 2012 through August 2013
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Soda Springs, Idaho

		Groundwater Elevation Data				Well Pair Data	
Well ID	**Date**	**TOC Elevation (feet amsl)**	**Depth to Water (feet btoc)**	**Groundwater Elevation (feet amsl)**	**Change in Elevation (feet)**	**Vertical Hydraulic Head Difference (feet)**	**Vertical Hydraulic Gradient (b)**
A-35-080	12/10/2012	6159.01	42.28	6116.73	--	2.83	0.038
	2/11/2013		41.48	6117.53	0.80	2.88	0.038
	3/7/2013		40.89	6118.12	0.59	1.84	0.025
	3/11/2013		40.90	6118.11	-0.01	1.70	0.023
	4/1/2013		38.91	6120.10	1.99	0.68	0.009
	5/17/2013		37.45	6121.56	1.46	0.12	0.002
	6/7/2013		38.93	6120.08	-1.48	0.82	0.011
	7/12/2013		38.66	6120.35	0.27	0.85	-0.011
	8/26/2013		40.69	6118.32	-2.03	1.85	-0.025
A-35-155	12/10/2012	6158.92	39.36	6119.56	--	--	--
	2/11/2013		38.51	6120.41	0.85	--	--
	3/7/2013		38.96	6119.96	-0.45	--	--
	3/11/2013		39.11	6119.81	-0.15	--	--
	4/1/2013		38.14	6120.78	0.97	--	--
	5/17/2013		37.24	6121.68	0.90	--	--
	6/7/2013		38.02	6120.90	-0.78	--	--
	7/12/2013		39.42	6119.50	-1.40	--	--
	8/26/2013		42.45	6116.47	-3.03	--	--

Table 2

Bedrock Groundwater Elevation Data
December 2012 through August 2013
Nu-West CPO Facility
Soda Springs, Idaho

		Groundwater Elevation Data				Well Pair Data	
Well ID	**Date**	**TOC Elevation (feet amsl)**	**Depth to Water (feet btoc)**	**Groundwater Elevation (feet amsl)**	**Change in Elevation (feet)**	**Vertical Hydraulic Head Difference (feet)**	**Vertical Hydraulic Gradient (b)**
A-36-105	12/10/2012	6160.48	37.88	6122.60	--	0.24	0.007
	2/11/2013		36.89	6123.59	0.99	0.26	0.007
	3/7/2013		37.43	6123.05	-0.54	0.17	0.005
	3/11/2013		37.53	6122.95	-0.10	0.10	0.003
	4/1/2013		36.74	6123.74	0.79	0.17	0.005
	5/17/2013		36.22	6124.26	0.52	0.11	0.003
	6/7/2013		37.08	6123.40	-0.86	0.10	0.003
	7/12/2013		38.66	6121.82	-1.58	0.04	0.001
	8/26/2013		41.70	6118.78	-3.04	0.00	0.000
A-36-145	12/10/2012	6160.54	37.71	6122.83	--	--	--
	2/11/2013		36.70	6123.84	1.01	--	--
	3/7/2013		37.33	6123.21	-0.63	--	--
	3/11/2013		37.50	6123.04	-0.17	--	--
	4/1/2013		36.64	6123.90	0.86	--	--
	5/17/2013		36.18	6124.36	0.46	--	--
	6/7/2013		37.05	6123.49	-0.87	--	--
	7/12/2013		38.69	6121.85	-1.64	--	--
	8/26/2013		41.77	6118.77	-3.08	--	--

Table 2

Bedrock Groundwater Elevation Data
December 2012 through August 2013
Nu-West CPO Facility
Soda Springs, Idaho

		Groundwater Elevation Data				Well Pair Data	
Well ID	**Date**	**TOC Elevation (feet amsl)**	**Depth to Water (feet btoc)**	**Groundwater Elevation (feet amsl)**	**Change in Elevation (feet)**	**Vertical Hydraulic Head Difference (feet)**	**Vertical Hydraulic Gradient (b)**
MW-A-110	12/10/2012	6159.21	44.71	6114.50	--	--	--
	2/11/2013		42.44	6116.77	2.27	--	--
	3/7/2013		41.74	6117.47	0.70	--	--
	3/11/2013		41.63	6117.58	0.11	--	--
	4/1/2013		40.24	6118.97	1.39	--	--
	5/17/2013		38.58	6120.63	1.66	--	--
	6/7/2013		38.97	6120.24	-0.39	--	--
	7/12/2013		39.69	6119.52	-0.72	--	--
	8/26/2013		42.05	6117.16	-2.36	--	--
MW-B-120	12/10/2012	6167.75	50.08	6117.67	--	--	--
	2/11/2013		48.14	6119.61	1.94	--	--
	3/7/2013		48.20	6119.55	-0.06	--	--
	3/11/2013		47.92	6119.83	0.28	--	--
	4/1/2013		46.91	6120.84	1.01	--	--
	5/17/2013		45.71	6122.04	1.20	--	--
	6/7/2013		46.09	6121.66	-0.38	--	--
	7/12/2013		47.23	6120.52	-1.14	--	--
	8/26/2013		49.66	6118.09	-2.43	--	--

a/ TOC = top of casing; ft amsl = feet above mean sea level; ft btoc = feet below top of casing
b/ Negative value is downward gradient; positive value is upward gradient

Table 3

A-34 Area Groundwater Elevation Data
December 2012 through August 2013
Nu-West CPO Facility
Soda Springs, Idaho

		Groundwater Elevation Data			
Well ID	**Date**	**TOC Elevation (feet amsl)**	**Depth to Water (feet btoc)**	**Groundwater Elevation (feet amsl)**	**Change in Elevation (feet)**
A-34-022	12/10/2012	6162.28	6.96	6155.32	--
	2/11/2013		7.74	6154.54	-0.78
	3/7/2013		8.01	6154.27	-0.27
	3/11/2013		8.10	6154.18	-0.09
	4/1/2013		8.54	6153.74	-0.44
	5/17/2013		11.79	6150.49	-3.25
	6/7/2013		11.76	6150.52	0.03
	6/26/2013		12.31	6149.97	-0.55
	7/12/2013		10.84	6151.44	1.47
	8/26/2013		13.56	6148.72	-2.72
	9/6/2013		13.95	6148.33	-0.39
A-37-025	3/7/2013	6163.63	14.57	6149.06	--
	3/11/2013		14.51	6149.12	0.06
	4/1/2013		14.06	6149.57	0.45
	5/17/2013		15.32	6148.31	-1.26
	6/7/2013		15.38	6148.25	-0.06
	6/26/2013		15.50	6148.13	-0.12
	7/12/2013		14.89	6148.74	0.61
	8/26/2013		16.43	6147.20	-1.54
	9/6/2013		16.78	6146.85	-0.35
A-38-019	3/7/2013	6161.96	7.80	6154.16	--
	3/11/2013		7.91	6154.05	-0.11
	4/1/2013		8.41	6153.55	-0.50
	5/17/2013		11.40	6150.56	-2.99
	6/7/2013		11.46	6150.50	-0.06
	6/26/2013		12.00	6149.96	-0.54
	7/12/2013		10.60	6151.36	1.40
	8/26/2013		13.20	6148.76	-2.60
	9/6/2013		13.50	6148.46	-0.30
A-39-023	3/7/2013	6159.58	9.74	6149.84	--
	3/11/2013		9.74	6149.84	0.00
	4/1/2013		9.11	6150.47	0.63
	5/17/2013		11.04	6148.54	-1.93
	6/7/2013		11.46	6148.12	-0.42
	6/26/2013		11.79	6147.79	-0.33
	7/12/2013		11.71	6147.87	0.08
	8/26/2013		12.42	6147.16	-0.71
	9/6/2013		12.94	6146.64	-0.52

Table 3

A-34 Area Groundwater Elevation Data
December 2012 through August 2013
Nu-West CPO Facility
Soda Springs, Idaho

		Groundwater Elevation Data			
Well ID	**Date**	**TOC Elevation (feet amsl)**	**Depth to Water (feet btoc)**	**Groundwater Elevation (feet amsl)**	**Change in Elevation (feet)**
A-40-023	3/7/2013	6162.65	13.10	6149.55	--
	3/11/2013		13.01	6149.64	0.09
	4/1/2013		12.37	6150.28	0.64
	5/17/2013		14.14	6148.51	-1.77
	6/7/2013		14.57	6148.08	-0.43
	6/26/2013		14.81	6147.84	-0.24
	7/12/2013		14.58	6148.07	0.23
	8/26/2013		15.61	6147.04	-1.03
	9/6/2013		16.03	6146.62	-0.42
A-41-031	3/7/2013	6161.30	17.44	6143.86	--
	3/11/2013		17.38	6143.92	0.06
	4/1/2013		16.03	6145.27	1.35
	5/17/2013		17.32	6143.98	-1.29
	6/7/2013		18.04	6143.26	-0.72
	6/26/2013		18.76	6142.54	-0.72
	7/12/2013		18.87	6142.43	-0.11
	8/26/2013		20.21	6141.09	-1.34
	9/6/2013		20.48	6140.82	-0.27
A-42-020	3/7/2013	6161.96	9.43	6152.53	--
	3/11/2013		9.63	6152.33	-0.20
	4/1/2013		9.89	6152.07	-0.26
	5/17/2013		12.03	6149.93	-2.14
	6/7/2013		12.75	6149.21	-0.72
	6/26/2013		13.66	6148.30	-0.91
	7/12/2013		12.27	6149.69	1.39
	8/26/2013		14.34	6147.62	-2.07
	9/6/2013		14.55	6147.41	-0.21
A-43-017	3/7/2013	6161.80	7.98	6153.82	--
	3/11/2013		8.09	6153.71	-0.11
	4/1/2013		8.68	6153.12	-0.59
	5/17/2013		11.25	6150.55	-2.57
	6/7/2013		11.29	6150.51	-0.04
	6/26/2013		11.83	6149.97	-0.54
	7/12/2013		10.42	6151.38	1.41
	8/26/2013		13.02	6148.78	-2.60
	9/6/2013		13.40	6148.40	-0.38

Table 3

A-34 Area Groundwater Elevation Data
December 2012 through August 2013
Nu-West CPO Facility
Soda Springs, Idaho

		Groundwater Elevation Data			
Well ID	**Date**	**TOC Elevation (feet amsl)**	**Depth to Water (feet btoc)**	**Groundwater Elevation (feet amsl)**	**Change in Elevation (feet)**
A-44-024	3/7/2013	6160.14	11.63	6148.51	--
	3/11/2013		11.61	6148.53	0.02
	4/1/2013		11.42	6148.72	0.19
	5/17/2013		12.70	6147.44	-1.28
	6/7/2013		12.90	6147.24	-0.20
	6/26/2013		13.22	6146.92	-0.32
	7/12/2013		13.63	6146.51	-0.41
	8/26/2013		14.11	6146.03	-0.48
	9/6/2013		14.86	6145.28	-0.75
A-45-027	3/7/2013	6162.50	23.73	6138.77	--
	3/11/2013		23.52	6138.98	0.21
	4/1/2013		21.75	6140.75	1.77
	5/17/2013		22.14	6140.36	-0.39
	6/7/2013		22.37	6140.13	-0.23
	6/26/2013		22.56	6139.94	-0.19
	7/12/2013		22.71	6139.79	-0.15
	8/26/2013		22.90	6139.60	-0.19
	9/6/2013		23.03	6139.47	-0.13
A-46-028	3/7/2013	6163.55	21.59	6141.96	--
	3/11/2013		21.44	6142.11	0.15
	4/1/2013		19.74	6143.81	1.70
	5/17/2013		20.82	6142.73	-1.08
	6/7/2013		21.15	6142.40	-0.33
	6/26/2013		21.92	6141.63	-0.77
	7/12/2013		21.86	6141.69	0.06
	8/26/2013		23.24	6140.31	-1.38
	9/6/2013		23.40	6140.15	-0.16
A-47-034	3/7/2013	6161.50	24.46	6137.04	--
	3/11/2013		23.52	6137.98	0.94
	4/1/2013		22.46	6139.04	1.06
	5/17/2013		23.41	6138.09	-0.95
	6/7/2013		24.02	6137.48	-0.61
	6/26/2013		24.53	6136.97	-0.51
	7/12/2013		24.35	6137.15	0.18
	8/26/2013		26.05	6135.45	-1.70
	9/6/2013		26.19	6135.31	-0.14

Table 3

A-34 Area Groundwater Elevation Data
December 2012 through August 2013
Nu-West CPO Facility
Soda Springs, Idaho

Well ID	Date	Groundwater Elevation Data			
		TOC Elevation (feet amsl)	Depth to Water (feet btoc)	Groundwater Elevation (feet amsl)	Change in Elevation (feet)
A-48-026	3/7/2013	6164.18	16.40	6147.78	--
	3/11/2013		16.42	6147.76	-0.02
	4/1/2013		15.70	6148.48	0.72
	5/17/2013		17.35	6146.83	-1.65
	6/7/2013		18.12	6146.06	-0.77
	6/26/2013		18.89	6145.29	-0.77
	7/12/2013		19.39	6144.79	-0.50
	8/26/2013		20.66	6143.52	-1.27
	9/6/2013		20.95	6143.23	-0.29

a/ TOC = top of casing; ft amsl = feet above mean sea level; ft btoc = feet below top of casing

Table 4

Historical Bedrock Groundwater Elevation Data
Nu-West CPO Facility
Soda Springs, Idaho

Well ID	TOC Elevation (feet amsl)	Groundwater Elevation (ft amsl)																
		Apr-01	Jul-01	Nov-01	Jun-02	Oct-02	May-03	Oct-03	May-04	Oct-04	Jun-05	Oct-05	Jun-06	Dec-06	May-07	Oct-07	Jun-08	Oct-08
A-01-065	6225.04	6188.71	6191.79	6192.91	6189.93	6188.15	6188.41	6188.46	6188.15	6186.81	6189.70	6190.70	6189.00	6190.70	6187.80	6187.70	6188.40	6187.00
A-02-167	6161.00																	
A-03-108	6152.88	6053.88	6042.97		6054.70								6060.40	6062.80	6056.00	6041.77	6054.40	6044.00
A-04-115	6153.07	6099.15	6087.53	6089.07	6104.19	6085.11	6083.38	6067.68	6063.33	6057.48	6062.40	6062.80	6111.50	6111.50	6102.40	6080.80	6104.60	6092.40
A-05-193	6153.50	6061.39	6056.05	6050.18	6065.79	6051.14	6049.55	6036.31	6033.40	6030.12	6032.40	6029.20	6067.00	6066.90	6064.90	6046.00	6061.30	6054.10
A-06-118	6153.22	6043.93	6041.69	6033.93	6052.14	6037.87	6032.56				6033.40	6031.90	6044.20	6054.20	6054.10	6038.20	6046.40	6041.50
A-07-120	6153.42	6052.93	6051.05	6041.42	6058.77	6042.37	6039.77	6030.56	6029.60				6063.80	6058.50	6059.00	6038.50	6052.80	6046.50
A-08-127	6151.89	6034.67	6033.77		6039.21	6022.65							6037.00	6035.00	6041.60	6021.50	6026.60	6021.80
A-09-150	6149.82	6038.30	6035.51	6022.08	6040.57	6024.44	6020.09	6012.09	6011.37	6009.79	6011.40	6010.40	6039.70	6036.30	6043.30	6018.30	6027.90	6022.50
A-10-199	6127.76					5985.16	5986.58	5983.11	5985.20	5982.45	5988.30	5983.30	5992.00	5988.30	5991.20	5986.30	5986.60	5984.10
A-11-140	6151.99														6025.30	6017.00	6008.20	6004.50
A-12-110	6129.81														6041.30	6015.00	6016.30	6010.00
A-13-135	6205.29																	
A-14-180	6192.49																	
A-15-105	6192.43																	
A-16-190	6244.87																	
A-17-150	6198.86																	
A-18-110	6151.31																	
A-19-095	6152.03																	
A-20-056	6156.17																	
A-20-090	6156.03																	
A-21-185	6154.83																	
A-22-063	6153.93																	
A-23-095	6152.22																	
A-25-085	6157.43																	
A-25-185	6157.36																	
A-26-060	6155.29																	
A-27-090	6153.36																	
A-27-135	6152.80																	
A-28-110	6142.74																	
A-28-165	6142.75																	
A-29-145	6147.75																	
A-29-195	6147.62																	
A-30-135	6116.40																	
A-30-175	6116.84																	
A-31-130	6117.10																	
A-31-170	6116.98																	
A-32-110	6118.35																	
A-32-150	6118.91																	
A-34-022	6162.28																	
A-35-080	6159.01																	
A-35-155	6158.92																	
A-36-105	6160.48																	
A-36-145	6160.54																	
MW05-1-265	6165.86												6057.60	6049.20	6054.20	6045.00	6046.40	6041.50
MW05-2-100	6164.11												6144.30	6147.00	6145.60	6145.40	6145.10	6137.90
MW05-3-240	6154.98												6104.00	6104.50	6092.70	6072.00	6096.00	6083.90
MW05-4-260	6173.76												6002.00	6003.00	6005.00	5991.00	5994.10	5990.60
MW05-5-240	6181.07												5999.80	6002.20	6002.80	5988.00	5993.30	5987.40
MW-A-110	6159.21												6087.70	6103.80	6101.80	6103.30	6099.80	6103.70	6102.10
MW-B-120	6167.75												6089.40	6103.20	6101.70	6102.10	6100.30	6101.30	6101.60

Table 4

Historical Bedrock Groundwater Elevation Data
Nu-West CPO Facility
Soda Springs, Idaho

Well ID	TOC Elevation (feet amsl)	Groundwater Elevation (ft amsl)																	
		May-09	Oct-09	May-10	Oct-10	May-11	Oct-11	Nov-11	Dec-11	May-12	Oct-12	Dec-12	Feb-13	Mar-13	Apr-13	May-13	Jun-13	Jul-13	Aug-13
A-01-065	6225.04	6189.20	6187.80	6191.72	6190.91	6192.64	6191.46			6191.45	6190.84	6191.12							
A-02-167	6161.00			6151.10	6150.93	6151.93	6155.88			6153.80	6153.17	6152.28							
A-03-108	6152.88	6065.80	6054.90	6073.36	6050.87	6069.00	6077.29			6068.64	6062.47	6079.07							
A-04-115	6153.07	6115.20	6104.20	6127.08	6095.40	6123.64	6132.05		6127.46	6116.27	6115.49	6130.59							
A-05-193	6153.50	6067.20	6065.50	6079.77	6060.74	6076.69	6083.54			6077.02	6070.21	6081.44							
A-06-118	6153.22	6050.60	6052.40	6064.84	6049.94	6061.74	6069.01			6064.16	6055.14	6066.38							
A-07-120	6153.42	6060.30	6060.20	6075.53	6055.26	6071.69	6081.68	6083.49	6083.63	6074.69	6065.31	6077.50							
A-08-127	6151.89	6032.90	6040.70	6053.63	6035.55	6050.63	6063.38			6062.83	6045.06	6055.72							
A-09-150	6149.82	6035.10	6042.40	6055.85	6036.99	6053.60	6065.73			6064.92	6047.55	6057.52							
A-10-199	6127.76	5989.30	5990.30	5992.96	5991.06	5997.79	6000.37			6002.37	5994.91	5994.56							
A-11-140	6151.99	6015.10	6012.40	6040.11	6018.97	6036.31	6055.73			6057.08	6028.23	6042.14							
A-12-110	6129.81	6030.60	6016.40	6029.62	6018.87	6033.38	6043.48			6055.78	6029.50	6030.18							
A-13-135	6205.29							6119.73	6120.26	6122.79	6123.64	6122.75							
A-14-180	6192.49							6136.60	6137.55	6137.07	6135.78	6135.53							
A-15-105	6192.43							6147.82	6138.54	6138.23	6137.09	6136.69							
A-16-190	6244.87							6144.80	6144.86	6144.93	6144.34	6143.96							
A-17-150	6198.86							6160.74	6160.04	6159.67	6159.94	6158.96							
A-18-110	6151.31							6074.29	6074.91	6067.88	6056.89	6065.72							
A-19-095	6152.03							6063.38	6083.39	6068.60	6066.00	6078.42							
A-20-056	6156.17							6119.88	6116.86	6104.97	6100.58	6117.64							
A-20-090	6156.03							6116.83	6115.33	6104.97	6100.72	6116.22							
A-21-185	6154.83							6127.93	6125.03	6114.42	6111.48	6125.21							
A-22-063	6153.93											6134.84							
A-23-095	6152.22							6133.91	6130.88	6123.02	6119.58	6137.06							
A-25-085	6157.43							6134.53	6130.85	6117.04	6115.05	6134.93							
A-25-185	6157.36							6134.91	6130.78	6116.87	6114.97	6134.82							
A-26-060	6155.29											6122.10							
A-27-090	6153.36											6118.68	6118.86	6118.98	6121.02	6124.07	6123.51	6121.82	6119.07
A-27-135	6152.80											6117.02	6117.58	6117.14	6118.25	6119.85	6118.92	6117.35	6114.32
A-28-110	6142.74											6058.03							
A-28-165	6142.75											6057.72							
A-29-145	6147.75											6051.81							
A-29-195	6147.62											6052.61							
A-30-135	6116.40											6039.91							
A-30-175	6116.84											6038.54							
A-31-130	6117.10											6047.24							
A-31-170	6116.98											6047.44							
A-32-110	6118.35											6046.34							
A-32-150	6118.91											6046.50							
A-34-022	6162.28											6155.32	6154.54	6154.18	6153.74	6150.49	6150.52	6151.44	6148.72
A-35-080	6159.01											6116.73	6117.53	6118.11	6120.10	6121.56	6120.08	6120.35	6118.32
A-35-155	6158.92											6119.56	6120.41	6119.81	6120.78	6121.68	6120.90	6119.50	6116.47
A-36-105	6160.48											6122.60	6123.59	6122.95	6123.74	6124.26	6123.40	6121.82	6118.78
A-36-145	6160.54											6122.83	6123.84	6123.04	6123.90	6124.36	6123.49	6121.85	6118.77
MW05-1-265	6165.86	6053.20	6058.50	6062.45	6062.71	6068.83	6078.10			6076.06	6068.47	6063.77							
MW05-2-100	6164.11	6148.40	6147.80	6154.47	6153.93	6156.56	6160.44			6160.11	6160.26	6159.09							
MW05-3-240	6154.98	6107.10	6095.20	6118.90	6093.64	6114.89	6125.97			6106.30	6103.88	6122.97							
MW05-4-260	6173.76	6001.30	5999.40	6012.62	5996.76	6011.30	6019.62			6016.34	6002.67	6015.34							
MW05-5-240	6181.07	5998.80	5996.30	6013.72	5996.38	6011.96	6020.72			6017.58	6003.18	6016.65							
MW-A-110	6159.21	6108.00	6112.00	6117.37	6114.39	6127.81	6127.82			6118.53	6115.87	6114.50	6116.77	6117.58	6118.97	6120.63	6120.24	6119.52	6117.16
MW-B-120	6167.75	6106.20	6110.70	6117.43	6114.46	6127.86	6128.83			6120.35	6117.86	6117.67	6119.61	6119.83	6120.84	6122.04	6121.66	6120.52	6118.09

a/ TOC = top of casing; ft amsl = feet above mean sea level; ft btoc = feet below top of casing

Table 5

Groundwater Sampling Field Parameters
Main Processing Area Groundwater Monitoring Program
Nu-West CPO Facility
Soda Springs, Idaho

Well ID	Date Sampled	pH (SU)	Sp. Conductance (mS/cm)	Turbidity (NTU)	Diss. Oxygen (mg/L)	T (ºC)	ORP (mV)
Groundwater Monitoring Wells							
A-27-090	12/18/12	5.91	4.430	7.1	0.47	5.98	195
	2/13/13	6.16	4.530	0.0	0.37	8.24	204
	3/11/13	5.86	4.180	128.0	0.36	8.50	171
	4/1/13	5.65	4.200	8.9	0.13	9.95	180
	5/20/13	5.77	4.360	7.6	1.15	9.98	176
	6/10/13	5.66	4.120	6.9	0.33	14.11	165
	7/15/13	5.62	4.120	14.3	0.51	14.85	176
	7/18/13	5.88	3.930	4.9	0.64	12.99	210
	8/26/13	5.70	4.040	3.9	0.28	14.30	176
A-27-135	12/18/12	6.03	4.730	36.8	0.43	6.22	173
	2/13/13	6.22	4.710	0.0	0.40	7.75	203
	3/11/13	5.93	4.300	87.8	0.51	8.16	100
	4/1/13	5.95	4.350	9.8	0.27	9.41	97
	5/20/13	5.50	4.250	14.8	0.57	10.05	196
	6/10/13	5.91	4.270	9.2	0.68	13.16	123
	7/15/13	5.92	4.240	22.5	0.67	12.29	131
	7/18/13	5.94	4.170	18.7	0.99	11.87	183
	8/26/13	5.97	4.160	9.2	0.71	13.59	152

Table 5

Groundwater Sampling Field Parameters
Main Processing Area Groundwater Monitoring Program
Nu-West CPO Facility
Soda Springs, Idaho

Well ID	Date Sampled	pH (SU)	Sp. Conductance (mS/cm)	Turbidity (NTU)	Diss. Oxygen (mg/L)	T (ºC)	ORP (mV)
Groundwater Monitoring Wells							
A-34-022	12/20/12	2.41	2.630 (a)	71.1	0.94	18.95	222
	1/23/13	2.40	22.800	0.0	0.96	18.31	221
	1/31/13	2.28	22.700	0.0	1.97	18.74	226
	2/7/13	2.36	22.200	0.0	0.99	18.20	221
	2/14/13	2.41	21.300	0.0	1.49	18.13	221
	2/20/13	2.39	21.500	0.0	0.93	18.04	225
	2/27/13	2.42	17.960	0.0	0.98	17.96	223
	3/7/13	2.04	18.300	0.0	4.07	17.86	217
	3/14/13	2.21	17.300	0.0	1.95	17.85	215
	3/20/13	2.04	17.000	0.0	0.99	17.63	222
	3/28/13	1.98	16.900	0.0	1.81	17.45	220
	4/4/13	1.94	16.700	0.0	0.69	17.68	226
	4/11/13	2.04	16.300	0.0	1.11	17.12	213
	4/18/13	2.15	16.200	0.0	0.77	16.91	208
	4/25/13	2.18	15.900	0.0	1.12	17.36	206
	5/2/13	1.97	16.000	0.0	2.61	17.12	213
	5/9/13	1.90	16.100	0.0	1.80	17.35	218
	5/15/13	1.99	16.100	0.0	1.63	17.65	211
	5/22/13	1.92	15.600	0.0	0.87	17.44	219
	5/30/13	1.96	15.700	0.0	2.00	16.84	214
	6/6/13	2.10	15.500	0.0	1.63	17.53	206
	6/13/13	1.89	15.700	0.0	0.88	17.70	222
	6/20/13	2.04	15.000	4.7	1.74	17.24	212
	6/26/13	1.88	14.800	55.2	2.44	22.93	185
	6/27/13	1.77	34.800	2.1	1.50	25.56	184
	6/28/13	2.03	14.400	0.0	5.76	24.18	181
	7/5/13	2.13	12.700	16.8	3.06	17.82	225
	7/11/13	2.14	12.500	9.5	1.59	17.72	217
	7/18/13	2.21	12.800	11.9	1.48	17.79	209
	7/25/13	2.20	12.800	8.1	1.41	18.05	210
	8/1/13	2.22	12.600	9.8	1.97	18.58	207
	8/8/13	1.90	12.300	10.2	1.01	19.09	221
	8/15/13	2.13	12.300	9.8	1.09	18.82	209
	8/22/13	2.09	12.100	1.1	1.06	18.69	206
	8/29/13	1.82	10.100	>800	0.39	20.02	228

Table 5

Groundwater Sampling Field Parameters
Main Processing Area Groundwater Monitoring Program
Nu-West CPO Facility
Soda Springs, Idaho

Well ID	Date Sampled	pH (SU)	Sp. Conductance (mS/cm)	Turbidity (NTU)	Diss. Oxygen (mg/L)	T (ºC)	ORP (mV)
Groundwater Monitoring Wells							
A-35-080	12/19/12	6.16	5.100	95	0.52	8.30	92
	2/13/13	6.44	5.180	0.0	0.31	10.08	155
	3/11/13	5.88	4.830	2.6	0.45	9.17	168
	4/2/13	5.80	4.850	7.5	0.15	12.35	211
	5/21/13	5.63	5.030	2.5	0.60	14.98	213
	6/12/13	5.97	5.090	4.3	0.54	13.31	128
	7/17/13	6.04	5.070	15.5	0.53	15.55	129
	8/28/13	5.91	4.950	32.5	0.24	18.08	119
A-35-155	12/17/12	6.74	2.510	49.3	0.69	9.79	175
	2/13/13	6.93	2.680	0.0	0.88	10.55	116
	3/14/13	6.58	2.550	9.6	0.64	11.71	75
	4/2/13	6.38	2.490	6.9	0.18	10.73	195
	5/20/13	6.21	2.580	1.7	0.47	11.85	174
	6/10/13	6.38	2.500	4.9	0.66	15.68	130
	7/15/13	6.31	2.520	12.6	0.78	16.15	146
	7/18/13	6.61	2.540	11.3	0.88	16.44	219
	8/26/13	6.12	2.510	1.7	0.55	15.57	159
A-36-105	12/19/12	6.01	5.360	0.0	0.38	11.13	87
	2/14/13	5.94	5.500	13.3	0.54	12.53	80
	3/15/13	5.65	5.010	13.9	0.21	13.46	76
	4/2/13	5.46	5.060	7.9	0.12	13.88	107
	5/22/13	5.67	5.250	16.8	1.12	15.73	88
	6/12/13	5.50	5.180	15.6	0.38	17.27	152
	7/17/13	5.48	5.180	21.1	0.55	18.98	215
	8/28/13	4.34	5.110	20.4	0.15	16.66	196
A-36-145	12/19/12	6.76	4.210	104	0.59	7.90	110
	2/14/13	6.86	4.660	24.4	0.76	10.43	138
	3/15/13	6.29	4.320	19.3	0.35	13.70	149
	4/3/13	6.30	4.330	14.3	0.11	13.12	171
	5/21/13	5.99	4.540	7.0	0.49	15.67	186
	6/12/13	6.17	4.390	7.1	0.42	19.1	144
	7/17/13	6.25	4.280	15.1	0.63	21.05	140
	8/28/13	5.96	4.060	12.1	0.19	23.36	131

Table 5

Groundwater Sampling Field Parameters
Main Processing Area Groundwater Monitoring Program
Nu-West CPO Facility
Soda Springs, Idaho

Well ID	Date Sampled	pH (SU)	Sp. Conductance (mS/cm)	Turbidity (NTU)	Diss. Oxygen (mg/L)	T (ºC)	ORP (mV)
Groundwater Monitoring Wells							
MW-A-110	10/16/12	5.29	4.620	0.1	0.75	10.37	239
	2/15/13	5.56	4.900	0.0	0.64	9.83	233
	3/12/13	5.55	4.440	6.1	0.25	9.58	204
	4/3/13	5.14	4.460	4.9	0.12	10.95	246
	5/23/13	4.85	4.550	4.2	0.28	12.61	241
	6/14/13	5.20	4.460	8.0	1.01	10.16	169
	7/19/13	5.32	4.460	15.1	0.77	11.5	233
	8/29/13	5.75	4.640	2.5	1.01	12.65	170
MW-B-120	10/16/12	6.35	1.050	0.0	2.31	10.68	185
	2/15/13	6.62	1.110	0.0	1.66	10.32	184
	3/12/13	6.24	1.020	1.9	0.38	10.47	187
	4/4/13	6.12	1.010	0.6	0.68	10.98	236
	5/23/13	6.20	1.050	1.7	1.57	11.96	177
	6/14/13	6.30	1.040	5.1	2.25	11.56	124
	7/19/13	6.38	1.040	12.9	2.62	11.94	174
	8/29/13	6.87	1.000	10.1	0.94	15.67	159
Nu-West Production Wells (b)							
NW-9	10/22/12	6.89	1.700	15.4	10.41	11.59	227
	2/15/13	6.83	1.840	0.0	8.13	11.12	104
	3/12/13	6.45	1.700	11.9	1.60	11.48	125
	4/3/13	6.28	1.730	12.6	0.90	11.78	168
	5/22/13	6.09	1.830	19.3	5.68	12.71	114
	6/13/13	6.41	1.220	293	8.32	11.79	141
	7/18/13	6.13	1.860	36	5.92	12.92	86
	8/29/13	6.08	1.820	30	1.69	13.05	116

°C - degrees Celsius; mS/cm - millisiemens per centimeter; NTU - nephelometric turbidity units
mg/L - milligrams per liter; mV - millivolts; SU - standard units
a/ Recorded value for field measurement specific conductance (2.630 mS/cm) not in agreement with laboratory specific conductance measurement (22.200 mS/cm)
b/ Field parameters not measured using flow-through cell. DO and ORP may not be representative of aquifer conditions.

Table 6

A-34-022 Groundwater Sampling Analytical Results for Metals and Wet Chemistry Parameters
Main Processing Area Groundwater Monitoring Program
July 5 through Aug 29, 2013
Nu-West CPO Facility
Soda Springs, Idaho

Sample ID: Sampling Date:	**EPA Maximum Contaminant Level (c)**	**Idaho Groundwater Standard (d)**	**A-34-022** **7/5/2013**	**A-34-022** **7/11/2013**	**A-34-022** **7/18/2013**	**A-34-022** **7/25/2013**	**A-34-022** **8/1/2013**	**A-34-022** **8/8/2013**	**A-34-022** **8/15/2013**	**A-34-022** **8/22/2013**	**A-34-022** **8/29/2013**
Total Metals (mg/L)											
Aluminum	no standard	0.2	**979**	**731**	**1,010**	**796**	**944**	**840**	**734**	**784**	**946**
Antimony	0.006	0.006	< 0.0065	< 0.0065	< 0.0065	< 0.013	<0.013	<0.013	<0.013	<0.013	< 0.0065
Arsenic	0.01	0.05	**0.166**	**0.093** J	**0.169**	**0.126**	**0.205**	**0.149**	**0.14**	**0.129**	**0.164**
Cadmium	0.005	0.005	**1.53**	**1.16**	**1.69**	**1.44**	**1.74**	**1.70**	**1.51**	**1.61**	**1.88**
Calcium	no standard	no standard	496	365	533	453	554	511	462	465	598
Chromium	0.1	0.1	**1.64**	**1.08**	**1.26**	**1.21**	**1.42**	**1.25**	**1**	**1.01**	**1.2**
Iron	no standard	0.3	**912**	**700**	**948**	**827**	**992**	**838**	**769**	**863**	**859**
Magnesium	no standard	no standard	643	482	710	544	646	564	519	543	598
Potassium	no standard	no standard	270	186	296	235	269	245	222	217	280
Selenium	0.05	0.05	< 0.010	< 0.020	0.0321 J	0.0212 J	<0.020	<0.020	**0.0503** J	<0.020	0.0197 J
Sodium	no standard	no standard	468	345	499	390	451	432	380	340	469
Dissolved Metals (mg/L)											
Aluminum	no standard	0.2	--	--	--	--	--	--	--	--	--
Antimony	0.006	0.006	--	--	--	--	--	--	--	--	--
Arsenic	0.01	0.05	--	--	--	--	--	--	--	--	--
Cadmium	0.005	0.005	--	--	--	--	--	--	--	--	--
Calcium	no standard	no standard	--	--	--	--	--	--	--	--	--
Chromium	0.1	0.1	--	--	--	--	--	--	--	--	--
Iron	no standard	0.3	--	--	--	--	--	--	--	--	--
Magnesium	no standard	no standard	--	--	--	--	--	--	--	--	--
Potassium	no standard	no standard	--	--	--	--	--	--	--	--	--
Selenium	0.05	0.05	--	--	--	--	--	--	--	--	--
Sodium	no standard	no standard	--	--	--	--	--	--	--	--	--

Table 6

A-34-022 Groundwater Sampling Analytical Results for Metals and Wet Chemistry Parameters
Main Processing Area Groundwater Monitoring Program
July 5 through Aug 29, 2013
Nu-West CPO Facility
Soda Springs, Idaho

Sample ID: Sampling Date:	**EPA Maximum Contaminant Level (c)**	**Idaho Groundwater Standard (d)**	**A-34-022** **7/5/2013**	**A-34-022** **7/11/2013**	**A-34-022** **7/18/2013**	**A-34-022** **7/25/2013**	**A-34-022** **8/1/2013**	**A-34-022** **8/8/2013**	**A-34-022** **8/15/2013**	**A-34-022** **8/22/2013**	**A-34-022** **8/29/2013**
Wet Chemistry (mg/L, unless otherwise noted)											
Alkalinity											
Alkalinity, Bicarbonate as $CaCO_3$	no standard	no standard	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Bicarbonate (as HCO_3^-) (e)	no standard	no standard	--	--	--	--	--	--	--	--	--
Alkalinity, Carbonate (as $CaCO_3$)	no standard	no standard	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Alkalinity (as $CaCO_3$)	no standard	no standard	< 0.60	< 0.60	< 0.60	< 0.60	< 0.60	< 0.60	< 0.60	< 0.60	< 0.60
Anions											
Chloride	no standard	250	158 J	186 J	136 J	**275**	143 J	156 J	118.0 J	140 J	157 J
Fluoride	4	4	**3,840**	**3,610**	**4,650**	**4,190**	**5,350**	**4,720**	**4,050**	**3,630**	**3,320**
Nitrate as N	10	10	7.6 J	7.6 J	7.8 J	7.9 J	7.2 J	5.8 J	5.1 J	5.3 J	9.9 J
Nitrate (as NO_3^-) (e)	no standard	no standard	33.7	33.7	34.6	35.0	31.9	25.7	22.6	23.5	43.9
Sulfate	no standard	250	**8,850**	**8,970**	**9,630**	**9,190**	**8,450**	**8,610**	**7,990**	**8,790**	**7,350**
General Chemistry											
pH (standard units)	no standard	6.5 - 8.5	**2.31**	**2.44**	**2.35**	**2.39**	**2.45**	**2.54**	**2.40**	**2.47**	**2.58**
Specific Conductivity (µmhos/cm)	no standard	no standard	10,100	10,600	12,900	12,800	12,200	12,900	12,500	12,400	11,200
Total Dissolved Solids	no standard	500	**16,900**	**14,300**	**19,600**	**16,200**	**15,900**	**15,900**	**15,800**	**15,500**	**13,700**
Phosphorus Species											
Total Phosphorus (as P)	no standard	no standard	1,570	1,270	2,080	1,630	1,730	1,570	1,880	4,980	4,310
Orthophosphate (as PO_4^{3-})	no standard	no standard	1,500	1,150	1,730	1,550	1,450	1,500	1,390	1,240	1,060
Charge Balance											
Total Cations (meq/l)	no standard	no standard	246.56	184.07	260.65	208.56	247.90	220.48	197.21	206.39	242.66
Total Anions (meq/l)	no standard	no standard	438.78	418.90	504.32	469.18	507.91	479.92	427.15	417.59	366.41
Charge Balance Error	no standard	no standard	-28.05%	-38.95%	-31.85%	-38.45%	-34.40%	-37.04%	-36.83%	-33.85%	-20.32%

a/ mg/L = milligrams per liter; µmhos/cm = micromhos per centimeter; J = analyte was detected at a concentration greater than the method detection limit but less than the reporting limit; NS = no standard specified. Bold font Indicates a concentration that exceeds one or more evaluation criteria.
b/ Evaluation criteria were taken from the EPA-approved Quality Assurance Project Plan dated June 29, 2010.
c/ National Primary Drinking Water Regulations, Title 40, Part 141, Appendix A, Regulated Contaminants EPA (March 2010).
d/ Idaho Groundwater Quality Rule, Idaho Administrative Code IDAPA 58.01.11, Numerical Ground Water Quality Standards, Primary and Secondary Standards.
e/ Nitrate as N03- was calculated using a conversion factor of 4.43 mg of nitrate per mg of nitrate as N;
Bicarbonate as HCO3- was calculated using a converstion factor of 1.22 mg of bicarbonate per mg of bicarbonate as CaCO3.
f/ Milliequivalent per liter (meq/l) conversion factors and charge balance error calculations from Hem (1985).

Table 7

Groundwater Sampling Analytical Results for Metals and Wet Chemistry Parameters
Main Processing Area Groundwater Monitoring Program
July 17 through Aug 29, 2013
Nu-West CPO Facility
Soda Springs, Idaho

Sample ID: Sampling Date:	**EPA Maximum Contaminant Level (c)**	**Idaho Groundwater Standard (d)**	**A-27-090** **7/18/2013**	**A-27-090** **8/26/2013**	**A-27-135** **7/18/2013**	**A-27-135** **8/26/2013**	**A-35-080** **7/17/2013**	**A-35-080** **8/28/2013**	**DUP08282013** **8/28/2013**	**A-35-155** **7/18/2013**	**DUP07182013** **7/18/2013**	**A-35-155** **8/26/2013**
Total Metals (mg/L)												
Aluminum	no standard	0.2	0.0667 J	< 0.015	0.0967 J	0.0218 J	0.1360 J	**0.8370**	**0.429**	0.0281 J	**1.84**	< 0.015
Antimony	0.006	0.006	< 0.0013	< 0.0013	0.0015 J	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013
Arsenic	0.01	0.05	**0.0235**	**0.023**	**0.0494**	**0.0462**	**0.0132**	**0.0143**	**0.015**	0.0025 J	< 0.0025	0.0045 J
Cadmium	0.005	0.005	< 0.00050	0.00060 J	0.0010 J	0.00120 J	0.0011 J	0.0016 J	0.0016 J	< 0.00050	< 0.00050	< 0.00050
Calcium	no standard	no standard	365	353	399	371	464	435	450	378	369	365
Chromium	0.1	0.1	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	0.0023 J	0.0022 J	< 0.0020	< 0.0020	< 0.0020
Iron	no standard	0.3	0.0532 J	< 0.029	0.0613 J	< 0.029	0.123 J	**1.22**	**1.24**	0.043 J	0.215 J	0.0297 J
Magnesium	no standard	no standard	204	197	199	180	310	281	294	168	162	162
Potassium	no standard	no standard	44.7	45.2	35.2	33.2	50.7	46	47.7	9.39 J	9.41 J	9.32 J
Selenium	0.05	0.05	0.0455	0.0412	**0.0546**	0.0476	0.0046 J	0.0024 J	< 0.0020	0.003 J	0.0052 J	< 0.0020
Sodium	no standard	no standard	257	245	434	394	240	216	218	79.9	77.6	79.2
Dissolved Metals (mg/L)												
Aluminum	no standard	0.2	--	--	--	--	--	--	--	--	--	--
Antimony	0.006	0.006	--	--	--	--	--	--	--	--	--	--
Arsenic	0.01	0.05	--	--	--	--	--	--	--	--	--	--
Cadmium	0.005	0.005	--	--	--	--	--	--	--	--	--	--
Calcium	no standard	no standard	--	--	--	--	--	--	--	--	--	--
Chromium	0.1	0.1	--	--	--	--	--	--	--	--	--	--
Iron	no standard	0.3	--	--	--	--	--	--	--	--	--	--
Magnesium	no standard	no standard	--	--	--	--	--	--	--	--	--	--
Potassium	no standard	no standard	--	--	--	--	--	--	--	--	--	--
Selenium	0.05	0.05	--	--	--	--	--	--	--	--	--	--
Sodium	no standard	no standard	--	--	--	--	--	--	--	--	--	--

Table 7

Groundwater Sampling Analytical Results for Metals and Wet Chemistry Parameters
Main Processing Area Groundwater Monitoring Program
July 17 through Aug 29, 2013
Nu-West CPO Facility
Soda Springs, Idaho

Sample ID: Sampling Date:	**EPA Maximum Contaminant Level (c)**	**Idaho Groundwater Standard (d)**	**A-27-090** **7/18/2013**	**A-27-090** **8/26/2013**	**A-27-135** **7/18/2013**	**A-27-135** **8/26/2013**	**A-35-080** **7/17/2013**	**A-35-080** **8/28/2013**	**DUP08282013** **8/28/2013**	**A-35-155** **7/18/2013**	**DUP07182013** **7/18/2013**	**A-35-155** **8/26/2013**
Wet Chemistry (mg/L, unless otherwise noted)												
Alkalinity												
Alkalinity, Bicarbonate as $CaCO_3$	no standard	no standard	664	674	892	936	623	788	743	344	303	416
Bicarbonate (as HCO_3^-) (e)	no standard	no standard	810	822	1,088	1,142	760	961	906	420	370	508
Alkalinity, Carbonate (as $CaCO_3$)	no standard	no standard	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Alkalinity (as $CaCO_3$)	no standard	no standard	664	675	892	938	623	788	743	344	303	417
Anions												
Chloride	no standard	250	43.3 J	45.7 J	71.7	72.2	174	164	156	35.5	35	42.4
Fluoride	4	4	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 0.60	< 0.60	< 0.60 J
Nitrate as N	10	10	**76.9**	**81.1**	**43.2**	**44.9**	**69**	**64.2**	**64.9**	1.5	3.9	2.1
Nitrate (as NO_3^-) (e)	no standard	no standard	340.7	359.3	191.4	198.9	305.7	284.4	287.5	6.6	17.3	9.3
Sulfate	no standard	250	**1,630**	**1,620**	**1,660**	**1,640**	**2,150**	**2,150**	**2,150**	**1,350**	**1,340**	**1,330**
General Chemistry												
pH (standard units)	no standard	6.5 - 8.5	**6.4**	**6.2**	**6.44**	**6.34**	6.59	**6.08**	**6.49**	7.15	7.04	6.98
Specific Conductivity (µmhos/cm)	no standard	no standard	4,450	4,220	4,630	4,420	5,420	5,500	5,400	2,680	2,530	2,610
Total Dissolved Solids	no standard	500	**4,150**	**3,190**	**2,770**	**4,020**	**4,670**	**3,830**	**3,820**	**2,460**	**1,990**	**2,350**
Phosphorus Species												
Total Phosphorus (as P)	no standard	no standard	106	158	108	164	81	72.4	69.7	0.96	0.70	0.81
Orthophosphate (as PO_4^{3-})	no standard	no standard	55	37.2	58.7	42.9	31.8	25.9	27.2	0.69	0.51	0.61
Charge Balance												
Total Cations (meq/l)	no standard	no standard	47.33	45.64	56.08	51.32	60.42	55.54	57.44	36.41	35.57	35.23
Total Anions (meq/l)	no standard	no standard	55.67	55.46	59.36	59.46	68.06	70.55	69.52	36.12	35.24	37.37
Charge Balance Error	no standard	no standard	-8.09%	-9.72%	-2.84%	-7.35%	-5.95%	-11.91%	-9.51%	0.40%	0.47%	-2.95%

Table 7

Groundwater Sampling Analytical Results for Metals and Wet Chemistry Parameters
Main Processing Area Groundwater Monitoring Program
July 17 through Aug 29, 2013
Nu-West CPO Facility
Soda Springs, Idaho

Sample ID: Sampling Date:	**EPA Maximum Contaminant Level (c)**	**Idaho Groundwater Standard (d)**	**A-36-105 7/17/2013**	**A-36-105 8/28/2013**	**A-36-145 7/17/2013**	**A-36-145 8/28/2013**	**MW-A-110 7/19/2013**	**MW-A-110 8/29/2013**	**MW-B-120 7/19/2013**	**MW-B-120 8/29/2013**
Total Metals (mg/L)										
Aluminum	no standard	0.2	**0.207**	**11.4**	0.0432 J	0.0318 J	**2.86**	**2.46**	**0.466**	**1.34**
Antimony	0.006	0.006	0.006	< 0.0013	< 0.0013	< 0.0026	<0.0013	<0.0013	< 0.0013	< 0.0013
Arsenic	0.01	0.05	< 0.0025	0.0033 J	< 0.0025	0.003 J	0.007 J	0.0086 J	< 0.0025	< 0.0025
Cadmium	0.005	0.005	**0.0421**	**0.0844**	< 0.0005	< 0.0010	**0.0250**	**0.0215**	0.0029 J	0.0039 J
Calcium	no standard	no standard	441	303	590	621	340	345	134	139
Chromium	0.1	0.1	< 0.002	0.0046 J	< 0.0020	< 0.0040	< 0.0020	< 0.0020	< 0.0020	< 0.0020
Iron	no standard	0.3	0.0371 J	**4.51**	0.161 J	**0.474**	< 0.029	0.079 J	< 0.029	**0.435**
Magnesium	no standard	no standard	516	375	376	377	238	236	49.5	53.4
Potassium	no standard	no standard	45.2	28.6	10	10.4	23.7	23.3	4.44 J	4.79 J
Selenium	0.05	0.05	0.0224	0.0026 J	< 0.0020	< 0.0040	0.0109	0.0025 J	0.0261	0.0226
Sodium	no standard	no standard	209	189	104	109	146	144	30.3	32
Dissolved Metals (mg/L)										
Aluminum	no standard	0.2	--	--	--	--	--	--	--	--
Antimony	0.006	0.006	--	--	--	--	--	--	--	--
Arsenic	0.01	0.05	--	--	--	--	--	--	--	--
Cadmium	0.005	0.005	--	--	--	--	--	--	--	--
Calcium	no standard	no standard	--	--	--	--	--	--	--	--
Chromium	0.1	0.1	--	--	--	--	--	--	--	--
Iron	no standard	0.3	--	--	--	--	--	--	--	--
Magnesium	no standard	no standard	--	--	--	--	--	--	--	--
Potassium	no standard	no standard	--	--	--	--	--	--	--	--
Selenium	0.05	0.05	--	--	--	--	--	--	--	--
Sodium	no standard	no standard	--	--	--	--	--	--	--	--

Table 7

Groundwater Sampling Analytical Results for Metals and Wet Chemistry Parameters
Main Processing Area Groundwater Monitoring Program
July 17 through Aug 29, 2013
Nu-West CPO Facility
Soda Springs, Idaho

Sample ID: Sampling Date:	**EPA Maximum Contaminant Level (c)**	**Idaho Groundwater Standard (d)**	**A-36-105 7/17/2013**	**A-36-105 8/28/2013**	**A-36-145 7/17/2013**	**A-36-145 8/28/2013**	**MW-A-110 7/19/2013**	**MW-A-110 8/29/2013**	**MW-B-120 7/19/2013**	**MW-B-120 8/29/2013**
Wet Chemistry (mg/L, unless otherwise noted)										
Alkalinity										
Alkalinity, Bicarbonate as $CaCO_3$	no standard	no standard	160	61	560	637	53	84.4	212	247
Bicarbonate (as HCO_3^-) (g)	no standard	no standard	195	74	683	777	65	103	259	301
Alkalinity, Carbonate (as $CaCO_3$)	no standard	no standard	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Alkalinity (as $CaCO_3$)	no standard	no standard	160	61	560	638	53	84.4	212	248
Anions										
Chloride (Cl^-)	no standard	250	3.3	102	77.4	87.7	**400**	**403**	26.6	28.7
Fluoride (F^-)	4	4	< 1.5	**44.7**	< 1.5	< 1.5	**9**	**11.8**	**20.9**	**19.5**
Nitrate as N	10	10	< 0.050	**12.5**	< 1.3	< 1.3	**230**	**223**	3.2	3.4
Nitrate (as NO_3^-) (g)	no standard	no standard	--	55.375	--	--	1,019	987.9	14.2	15.1
Sulfate (SO_4^{2-})	no standard	250	**3,770**	**3,910**	**2,740**	**2,610**	**1,020**	**1,030**	**268**	**275**
General Chemistry										
pH (standard units)	no standard	6.5 - 8.5	**6.24**	**5.18**	7.06	7.14	**5.61**	**5.65**	7.01	6.95
Specific Conductivity	no standard	no standard	5,430	5,700	4,510	4,460	4,110	4,550	1,120	1,090
Total Dissolved Solids	no standard	500	**4,660**	**6,180**	**4,540**	**4,360**	**5,200**	**2,840**	**1,010**	**715**
Phosphorus Species										
Total Phosphorus (as P)	no standard	no standard	0.3	0.049 J	0.17	< 0.028	18.7	13.8	1.5	0.11
Orthophosphate (as PO_4^{3-})	no standard	no standard	< 0.020	0.11	0.33	0.13	19.3	11.5	2.5	1.7
Charge Balance										
Total Cations (meq/l)	no standard	no standard	74.74	56.36	65.17	67.04	43.83	43.77	12.24	13.01
Total Anions (meq/l)	no standard	no standard	81.78	88.75	70.44	69.56	51.10	51.42	11.98	12.80
Charge Balance Error	no standard	no standard	-4.50%	-22.32%	-3.88%	-1.84%	-7.66%	-8.03%	1.10%	0.82%

Table 7

Groundwater Sampling Analytical Results for Metals and Wet Chemistry Parameters
Main Processing Area Groundwater Monitoring Program
July 17 through Aug 29, 2013
Nu-West CPO Facility
Soda Springs, Idaho

Sample ID: Sampling Date:	**EPA Maximum Contaminant Level (c)**	**Idaho Groundwater Standard (d)**	**NW-9** **7/18/2013**	**NW-9** **8/29/2013**	**EB 07172013** **7/17/2013**	**EB 08292013** **8/29/2013**
Total Metals (mg/L)						
Aluminum	no standard	0.2	**3.65**	**3.28**	< 0.015	< 0.015
Antimony	0.006	0.006	< 0.0013	< 0.0013	< 0.0013	< 0.0013
Arsenic	0.01	0.05	0.005 J	0.0037 J	< 0.0025	< 0.0025
Cadmium	0.005	0.005	**0.0094**	**0.0086**	< 0.00050	< 0.00050
Calcium	no standard	no standard	231	228	0.0786 J	0.0526 J
Chromium	0.1	0.1	< 0.002	< 0.002	< 0.0020	< 0.0020
Iron	no standard	0.3	0.109 J	< 0.029	< 0.029	< 0.029
Magnesium	no standard	no standard	96.5	94.3	< 0.074	< 0.074
Potassium	no standard	no standard	7.69 J	7.48 J	< 0.20	< 0.20
Selenium	0.05	0.05	0.0143	0.0102	< 0.0020	< 0.0020
Sodium	no standard	no standard	65.4	66.2	< 0.50	< 0.50
Dissolved Metals (mg/L)						
Aluminum	no standard	0.2	--	--	--	--
Antimony	0.006	0.006	--	--	--	--
Arsenic	0.01	0.05	--	--	--	--
Cadmium	0.005	0.005	--	--	--	--
Calcium	no standard	no standard	--	--	--	--
Chromium	0.1	0.1	--	--	--	--
Iron	no standard	0.3	--	--	--	--
Magnesium	no standard	no standard	--	--	--	--
Potassium	no standard	no standard	--	--	--	--
Selenium	0.05	0.05	--	--	--	--
Sodium	no standard	no standard	--	--	--	--

Table 7

Groundwater Sampling Analytical Results for Metals and Wet Chemistry Parameters
Main Processing Area Groundwater Monitoring Program
July 17 through Aug 29, 2013
Nu-West CPO Facility
Soda Springs, Idaho

Sample ID: Sampling Date:	**EPA Maximum Contaminant Level (c)**	**Idaho Groundwater Standard (d)**	**NW-9** **7/18/2013**	**NW-9** **8/29/2013**	**EB 07172013** **7/17/2013**	**EB 08292013** **8/29/2013**
Wet Chemistry (mg/L, unless otherwise noted)						
Alkalinity						
Alkalinity, Bicarbonate as $CaCO_3$	no standard	no standard	230	256	< 5.0	< 5.0
Bicarbonate (as HCO_3^-) (g)	no standard	no standard	281	312	--	--
Alkalinity, Carbonate (as $CaCO_3$)	no standard	no standard	< 5.0	< 5.0	< 5.0	< 5.0
Alkalinity (as $CaCO_3$)	no standard	no standard	230	256	< 0.60	0.8 J
Anions						
Chloride (Cl^-)	no standard	250	91.3	89.3	< 0.80	0.86 J
Fluoride (F^-)	4	4	**16.3**	**14.3**	< 0.060	< 0.060
Nitrate as N	10	10	**25.2**	**26.2**	< 0.050	< 0.050
Nitrate (as NO_3^-) (e)	no standard	no standard	111.6	116.066	--	--
Sulfate (SO_4^{2-})	no standard	250	**597**	**595**	3	< 0.6
General Chemistry						
pH (standard units)	no standard	6.5 - 8.5	6.68	**5.6**	**5.4**	**5.58**
Specific Conductivity	no standard	no standard	1,940	1,920	8,970	4
Total Dissolved Solids	no standard	500	**1,850**	**1,470**	**4,590** J	< 10
Phosphorus Species						
Total Phosphorus (as P)	no standard	no standard	2.7	7.8	< 0.028	< 0.028
Orthophosphate (as PO_4^{3-})	no standard	no standard	8.3	3.5	< 0.020	0.042 J
Charge Balance						
Total Cations (meq/l)	no standard	no standard	22.92	22.57	--	--
Total Anions (meq/l)	no standard	no standard	22.53	22.76	--	--
Charge Balance Error	no standard	no standard	0.87%	-0.42%	--	--

a/ mg/L = milligrams per liter; µmhos/cm = micromhos per centimeter; J = analyte was detected at a concentration greater than the method detection li
NS = no standard specified. Bold font Indicates a concentration that exceeds one or more evaluation criteria.
b/ Evaluation criteria were taken from the EPA-approved Quality Assurance Project Plan dated June 29, 2010.
c/ National Primary Drinking Water Regulations, Title 40, Part 141, Appendix A, Regulated Contaminants EPA (March 2010).
d/ Idaho Groundwater Quality Rule, Idaho Administrative Code IDAPA 58.01.11, Numerical Ground Water Quality Standards, Primary and Secondary S
e/ Nitrate as N03- was calculated using a conversion factor of 4.43 mg of nitrate per mg of nitrate as N;
Bicarbonate as HCO3- was calculated using a converstion factor of 1.22 mg of bicarbonate per mg of bicarbonate as CaCO3.
f/ Milliequivalent per liter (meq/l) conversion factors and charge balance error calculations from Hem (1985).

Table 8

Historical Groundwater Sampling Analytical Results for Metals and General Chemistry Parameters
Nu-West CPO Facility
Soda Springs, Idaho

			Metals (mg/l)																					
Well ID	**Sample Date**	**Total or Dissolved**	**Aluminum**		**Antimony**		**Arsenic**		**Barium**		**Beryllium**		**Cadmium**		**Calcium**	**Chromium**		**Cobalt**		**Copper**		**Iron**	
EPA MCL			NS		0.006		0.01		2		0.004		0.005		NS	0.1		NS		1.3		NS	
Idaho Groundwater Standard			0.2		0.006		0.05		2		0.004		0.005		NS	0.1		NS		1.3		0.3	
Groundwater Monitoring Wells																								
A-27-090	12/18/2012	Dissolved	-		0.0042	J	**0.0189**		0.0769	J	< 0.00050		< 0.00050		405	< 0.0020		-		-		-	
	2/13/2013	Dissolved	<0.015		<0.0013		**0.0203**		-		-		<0.0005		360	<0.002		-		-		<0.029	
	3/11/2013	Total	**0.733**		< 0.0013		**0.0199**		-		-		< 0.00050		366	< 0.0020		-		-		**1.19**	
	4/1/2013	Total	0.0726	J	< 0.0013		**0.0234**		-		-		< 0.00050		365	< 0.0020		-		-		0.102	J
	5/20/2013	Total	0.113	J	0.0027	J	**0.021**		-		-		< 0.00050		352	< 0.0020		-		-		0.174	
	6/10/2013	Total	0.102	J	0.0033	J	**0.0211**		-		-		0.00050	J	379	< 0.0020		-		-		0.0766	
	7/18/2013	Total	0.0667	J	< 0.0013		**0.0235**		-		-		< 0.00050		365	< 0.0020		-		-		0.0532	J
	8/26/2013	Total	< 0.015		< 0.0013		**0.023**		-		-		0.00060	J	353	< 0.0020		-		-		< 0.029	
A-27-135	12/18/2012	Dissolved	-		0.0052	J	**0.0464**		0.0777	J	< 0.00050		0.0011	J	407	< 0.0020				-		-	
	2/13/2013	Dissolved	0.022	J	<0.0013		**0.0454**		-		-		<0.0005		360	<0.002				-		0.0574	J
	3/11/2013	Total	**0.444**		< 0.0013		**0.0441**		-		-		< 0.00050		374	0.0024	J	-		-		**0.411**	
	4/1/2013	Total	0.0616	J	< 0.0013		**0.0473**		-		-		< 0.00050		357	< 0.0020		-		-		0.0689	J
	5/20/2013	Total	0.015	J	0.0019	J	**0.0448**		-		-		< 0.00050		369	< 0.0020		-		-		< 0.029	
	6/10/2013	Total	0.0448	J	0.0021	J	**0.0452**		-		-		0.00070	J	382	< 0.0020		-		-		< 0.029	
	7/18/2013	Total	0.0967	J	0.0015	J	**0.0494**		-		-		0.00100	J	399	< 0.0020		-		-		0.0613	J
	8/26/2013	Total	0.0218	J	< 0.0013		**0.0462**		-		-		0.00120	J	371	< 0.0020		-		-		< 0.029	

Table 8

Historical Groundwater Sampling Analytical Results for Metals and General Chemistry Parameters
Nu-West CPO Facility
Soda Springs, Idaho

Well ID	Sample Date	Total or Dissolved	Metals (mg/l) Lead		Magnesium	Manganese	Mercury	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium		Zinc
EPA MCL			0.015		NS	NS	0.002	NS	NS	0.05	NS	NS	0.002	NS		NS
Idaho Groundwater Standard			0.015		NS	0.05	0.002	NS	NS	0.05	0.1	NS	0.002	NS		5
Groundwater Monitoring Wells																
A-27-090	12/18/2012	Dissolved	< 0.0011		221	-	-	0.055	46.3	0.0446	-	290	0.0012	0.0093	J	-
	2/13/2013	Dissolved	-		190	-	-	-	45.2	0.044	-	291	-	-		-
	3/11/2013	Total	-		194	-	-	-	42.5	0.0429	-	305	-	-		-
	4/1/2013	Total	-		197	-	-	-	43.9	0.0458	-	287	-	-		-
	5/20/2013	Total	-		199	-	-	-	43.2	0.0408	-	247	-	-		-
	6/10/2013	Total	-		215	-	-	-	46.8	0.0455	-	302	-	-		-
	7/18/2013	Total	-		204	-	-	-	44.7	0.0455	-	257	-	-		-
	8/26/2013	Total	-		197	-	-	-	45.2	0.0412	-	245	-	-		-
A-27-135	12/18/2012	Dissolved	0.0013	J	216	-	-	0.0543	34.3	0.0377	-	439	0.00074	0.0179	J	-
	2/13/2013	Dissolved	-		181	-	-	-	33.6	0.0434	-	386	-	-		-
	3/11/2013	Total	-		192	-	-	-	30.9	0.04	-	529	-	-		-
	4/1/2013	Total	-		187	-	-	-	30.7	0.0398	-	413	-	-		-
	5/20/2013	Total	-		193	-	-	-	31.8	0.0436	-	441	-	-		-
	6/10/2013	Total	-		198	-	-	-	33.2	0.0465	-	390	-	-		-
	7/18/2013	Total	-		199	-	-	-	35.2	**0.0546**	-	434	-	-		-
	8/26/2013	Total	-		180	-	-	-	33.2	0.0476	-	394	-	-		-

Table 8

Historical Groundwater Sampling Analytical Results for Metals and General Chemistry Parameters
Nu-West CPO Facility
Soda Springs, Idaho

		Alkalinity (mg/l)					Anions (mg/l)									
Well ID	**Sample Date**	**Total Alkalinity (as CaCO3)**	**Alkalinity, Bicarbonate (as CaCO3)**	**Alkalinity, Bicarbonate (as HCO3)**	**Alkalinity, Carbonate (as CaCO3)**	**Hardness (as CaCO3)**	**Chloride**		**Fluoride**		**Nitrate + Nitrite (as N)**	**Nitrate (as N)**	**Nitrite (as N)**	**Sulfate**	**Sulfide**
EPA MCL		NS	NS	NS	NS	NS	NS		4		NS	10	1	NS	NS
Idaho Groundwater Standard		NS	NS	NS	NS	NS	250		4		NS	10	1	250	NS
Groundwater Monitoring Wells															
A-27-090	12/18/2012	653	652	795	< 5.0	1,920	46.8	J	1.2		75.5	**75.5**	< 1.3	**1,560**	< 0.22
	2/13/2013	658	657	802	< 5.0	-	30.1	J	< 1.5		-	**66.8**	-	**1,580**	-
	3/11/2013	685	685	836	< 5.0	-	39.1		1.3	J	-	**69.7**	-	**1,520**	-
	4/1/2013	700	700	854	< 5.0	-	39.3	J	< 1.5		-	**66**	-	**1,590**	-
	5/20/2013	753	753	919	< 5.0	-	45.6	J	< 1.5		-	**68.5**	-	**1,520**	-
	6/10/2013	790	790	964	< 5.0	-	55.3	J	< 1.5		-	**71.8**	-	**1,500**	-
	7/18/2013	664	664	810	< 5.0	-	43.3	J	< 1.5		-	**76.9**	-	**1,630**	-
	8/26/2013	675	674	822	< 5.0	-	45.7	J	< 1.5		-	**81.1**	-	**1,620**	-
A-27-135	12/18/2012	1,080	1,080	1,318	< 5.0	1,910	74.7		0.81	J	20.4	**20.4**	< 1.3	**1,590**	< 0.22
	2/13/2013	963	962	1,174	< 5.0	-	52	J	**19.6**		-	**19.3**	-	**1,510**	-
	3/11/2013	1,030	1,030	1,257	< 5.0	-	64.4		1.2	J	-	**18.5**	-	**1,460**	-
	4/1/2013	1,110	1,110	1,354	< 5.0	-	67		< 1.5		-	**20.3**	-	**1,570**	-
	5/20/2013	961	961	1,172	< 5.0	-	64.6		< 1.5		-	**33.4**	-	**1,580**	-
	6/10/2013	1,070	1,070	1,305	< 5.0	-	90.3	J	< 1.5		-	**35.3**	-	**1,590**	-
	7/18/2013	892	892	1,088	< 5.0	-	71.7		< 1.5		-	**43.2**	-	**1,660**	-
	8/26/2013	938	936	1,142	< 5.0	-	72.2		< 1.5		-	**44.9**	-	**1,640**	-

Table 8

Historical Groundwater Sampling Analytical Results for Metals and General Chemistry Parameters
Nu-West CPO Facility
Soda Springs, Idaho

		General Chemistry				Nitrogen Species (mg/l)			Phosphorus Species (mg/l)		Charge Balance		
Well ID	**Sample Date**	**pH (S.U.)**	**Specific Conductance (µmhos/cm)**	**Total Dissolved Solids**	**Total Suspended Solids**	**Ammonia (as N)**	**Total Nitrogen**	**Total Kjeldahl Nitrogen**	**Ortho-phosphate (as PO4)**	**Total Phosphorus**	**Total Cations (meq/l)**	**Total Anions (meq/l)**	**Charge Balance Error**
	EPA MCL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	Idaho Groundwater Standard	6.5 - 8.5	NS	500	NS	NS	NS	NS	NS	NS	NS	NS	NS
Groundwater Monitoring Wells													
A-27-090	12/18/2012	**6.25**	4,010	**3,170**	17	96	157	81.6	46.1	82.5	52.20	53.75	-1.47%
	2/13/2013	**6.45**	4,060	**2,920**	-	-	-	-	48.1	191	47.41	53.17	-5.73%
	3/11/2013	**6.48**	3,850	**3,370**	-	-	-	-	40.2	112	48.71	52.77	-4.00%
	4/1/2013	**6.21**	3,880	**3,230**	-	-	-	-	51.6	104	48.04	54.56	-6.35%
	5/20/2013	**6.28**	3,370	**3,480**	-	-	-	-	15.6	92.3	45.81	53.38	-7.63%
	6/10/2013	**6.16**	4,160	**3,190**	-	-	-	-	75.1	140	50.95	56.09	-4.80%
	7/18/2013	**6.40**	4,450	**4,150**	-	-	-	-	55	106	47.33	55.67	-8.09%
	8/26/2013	**6.20**	4,220	**3,190**	-	-	-	-	37.2	158	45.64	55.46	-9.72%
A-27-135	12/18/2012	**6.36**	4,320	**2,740**	17	33.5	54.8	34.4	48.9	52.9	70.01	59.85	7.82%
	2/13/2013	6.65	4,220	**3,070**	-	-	-	-	43.5	121	63.38	55.93	6.25%
	3/11/2013	6.51	4,030	**3,620**	-	-	-	-	34.7	60.2	58.33	55.29	2.67%
	4/1/2013	**6.27**	4,080	**3,120**	-	-	-	-	54.9	73.4	51.96	59.96	-7.14%
	5/20/2013	**6.31**	3,480	**3,700**	-	-	-	-	49.8	78.5	54.29	57.89	-3.21%
	6/10/2013	**6.30**	4,350	**3,540**	-	-	-	-	88.3	129	53.17	62.36	-7.95%
	7/18/2013	**6.44**	4,630	**2,770**	-	-	-	-	58.7	108	56.08	59.36	-2.84%
	8/26/2013	**6.34**	4,420	**4,020**	-	-	-	-	42.9	164	51.32	59.46	-7.35%

Table 8

Historical Groundwater Sampling Analytical Results for Metals and General Chemistry Parameters
Nu-West CPO Facility
Soda Springs, Idaho

Well ID	Sample Date	Total or Dissolved	Aluminum	Antimony		Arsenic	Barium		Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron
			Metals (mg/l)												
	EPA MCL		NS	0.006		0.01	2		0.004	0.005	NS	0.1	NS	1.3	NS
	Idaho Groundwater Standard		0.2	0.006		0.05	2		0.004	0.005	NS	0.1	NS	1.3	0.3
Groundwater Monitoring Wells															
A-34-022	11/14/2012	Dissolved	-	-		**0.368**	0.239		-	**5.535**	-	**9.24**	-	-	-
	12/6/2012	Dissolved		**0.035**		**0.422**	0.128		**0.085**	**5.997**	623	**4.871**			
	12/20/2012	Dissolved	-	**0.0451**	J	**0.275**	0.0562	J	**0.0721**	**4.14**	486	**4.55**	-	-	-
	1/23/2013	Dissolved	**1,260**	**0.0065**	U	**0.343**	-		-	**4.1**	558	**3.22**	-	-	**1,380**
	1/31/2013	Dissolved	**1,860**	<0.013		**0.24**	-		-	**3.54**	455	**3.77**	-	-	**2,420**
	2/7/2013	Dissolved	**1,660**	<0.0065		**0.24**	-		-	**3.58**	487	**3.56**	-	-	**1,850**
	2/14/2013	Dissolved	**1,860**	<0.013		**0.266**	-		-	**3.97**	561	**3.8**	-	-	**2,240**
	2/20/2013	Dissolved	**1,820**	< 0.065		**0.25**	-		-	**3.34**	559	**3.68**	-	-	**2,010**
	2/27/2013	Total	**1,380**	< 0.0065		**0.23**	-		-	**3.29**	523	**3.15**	-	-	**1,580**
	3/7/2013	Total	**1,410**	< 0.0065		**0.288**	-		-	**3.4**	581	**3.17**	-	-	**1,520**
	3/14/2013	Total	**1,390**	< 0.0065		**0.243**	-		-	**2.97**	528	**2.93**	-	-	**1,540**
	3/20/2013	Total	**1,410**	< 0.065		**0.253**	-		-	**3.27**	588	**3.00**	-	-	**1,460**
	3/28/2013	Total	**1,260**	< 0.0065		**0.238**	-		-	**2.89**	505	**2.51**	-	-	**1,410**
	4/4/2013	Total	**1,300**	< 0.0065		**0.24**	-		-	**3.1**	557	**2.80**	-	-	**1,260**
	4/11/2013	Total	**1,150**	< 0.0065		**0.237**	-		-	**2.91**	535	**2.49**	-	-	**1,270**
	4/18/2013	Total	**1,260**	< 0.0065		**0.234**	-		-	**2.98**	559	**2.11**	-	-	**1,350**
	4/25/2013	Total	**1,260**	< 0.0065		**0.258**	-		-	**3.05**	602	**2.19**	-	-	**1,330**
	5/2/2013	Total	**1,310**	< 0.0065		**0.246**	-		-	**3.02**	621	**2.58**	-	-	**1,370**
	5/9/2013	Total	**1,220**	< 0.0065		**0.24**	-		-	**2.76**	569	**2.45**	-	-	**1,270**
	5/15/2013	Total	**1,290**	< 0.0065		**0.246**	-		-	**2.88**	609	**2.38**	-	-	**1,330**
	5/22/2013	Total	**1,260**	< 0.0065		**0.254**	-		-	**2.97**	612	**2.48**	-	-	**1,320**
	5/30/2013	Total	**1,200**	<0.013		**0.208**	-		-	**2.72**	584	**2.41**	-	-	**1,270**
	6/6/2013	Total	**1,230**	<0.0065		**0.228**	-		-	**2.79**	593	**2.36**	-	-	**1,280**
	6/13/2013	Total	**1,240**	<0.091		**0.228**	-		-	**2.62**	611	**2.44**	-	-	**1,380**
	6/20/2013	Total	**1,050**	<0.12		**0.202**	-		-	**2.51**	569	**2.12**	-	-	**1,140**
	6/26/2013	Total	**1,685**	**0.026**		**0.196**	-		-	**2.55**	627	**3.01**	-	-	**1,906**
	6/27/2013	Total	**1,488**	**0.026**		**0.188**	-		-	**2.35**	644	**3.02**	-	-	**1,760**
	6/28/2013	Total	**1,389**	**0.019**		**0.165**	-		-	**2.01**	636	**2.76**	-	-	**1,659**
	7/5/2013	Total	**979**	< 0.0065		**0.166**	-		-	**1.53**	496	**1.64**	-	-	**912**
	7/11/2013	Total	**731**	< 0.013		**0.0926**	J	-	-	**1.16**	365	**1.08**	-	-	**700**
	7/18/2013	Total	**1,010**	< 0.0065		**0.169**	-		-	**1.69**	533	**1.26**	-	-	**948**
	7/25/2013	Total	**796**	< 0.013		**0.126**	-		-	**1.44**	453	**1.21**	-	-	**827**
	8/1/2013	Total	**944**	< 0.013		**0.205**	-		-	**1.74**	554	**1.42**	-	-	**992**
	8/8/2013	Total	**840**	< 0.013		**0.149**	-		-	**1.7**	511	**1.25**	-	-	**838**
	8/15/2013	Total	**734**	< 0.013		**0.14**	-		-	**1.51**	462	**1**	-	-	**769**
	8/22/2013	Total	**784**	< 0.013		**0.129**	-		-	**1.61**	465	**1.01**	-	-	**863**
	8/29/2013	Total	**946**	< 0.0065		**0.164**	-		-	**1.88**	598	**1.2**	-	-	**859**

Table 8

Historical Groundwater Sampling Analytical Results for Metals and General Chemistry Parameters
Nu-West CPO Facility
Soda Springs, Idaho

			Metals (mg/l)											
Well ID	**Sample Date**	**Total or Dissolved**	**Lead**	**Magnesium**	**Manganese**	**Mercury**	**Nickel**	**Potassium**	**Selenium**		**Silver**	**Sodium**	**Thallium**	**Vanadium**	**Zinc**
	EPA MCL		0.015	NS	NS	0.002	NS	NS	0.05		NS	NS	0.002	NS	NS
	Idaho Groundwater Standard		0.015	NS	0.05	0.002	NS	NS	0.05		0.1	NS	0.002	NS	5
Groundwater Monitoring Wells															
A-34-022	11/14/2012	Dissolved	< 0.050	-	-	< 0.050	-	-	< 0.050		< 0.050	-	-	-	-
	12/6/2012	Dissolved	< 0.010	1,662			8.411	684.6	0.023			1,183	**0.02**	19.9	
	12/20/2012	Dissolved	< 0.44	1,480	-	-	7.12	577	< 0.020		-	934	**0.0261**	14.1	-
	1/23/2013	Dissolved	-	947	-	-	-	405	0.01	U	-	765	-	-	-
	1/31/2013	Dissolved	-	1,450	-	-	-	506	<0.02		-	855	-	-	-
	2/7/2013	Dissolved	-	1,230	-	-	-	625	<0.01		-	1,120	-	-	-
	2/14/2013	Dissolved	-	1,430	-	-	-	533	<0.02		-	941	-	-	-
	2/20/2013	Dissolved	-	1,430	-	-	-	570	**0.0946**		-	986	-	-	-
	2/27/2013	Total	-	1,020	-	-	-	478	**0.0616**		-	849	-	-	-
	3/7/2013	Total	-	1,030	-	-	-	395	< 0.010		-	847	-	-	-
	3/14/2013	Total	-	1,020	-	-	-	388	< 0.010		-	864	-	-	-
	3/20/2013	Total	-	1,020	-	-	-	409	0.0228	J	-	834	-	-	-
	3/28/2013	Total	-	937	-	-	-	375	< 0.010		-	724	-	-	-
	4/4/2013	Total	-	894	-	-	-	394	< 0.010		-	701	-	-	-
	4/11/2013	Total	-	816	-	-	-	382	< 0.010		-	545	-	-	-
	4/18/2013	Total	-	920	-	-	-	397	< 0.010		-	804	-	-	-
	4/25/2013	Total	-	930	-	-	-	381	< 0.010		-	735	-	-	-
	5/2/2013	Total	-	936	-	-	-	399	< 0.010		-	698	-	-	-
	5/9/2013	Total	-	865	-	-	-	366	< 0.010		-	600	-	-	-
	5/15/2013	Total	-	949	-	-	-	383	< 0.010		-	760	-	-	-
	5/22/2013	Total	-	917	-	-	-	392	< 0.010		-	616	-	-	-
	5/30/2013	Total	-	838	-	-	-	329	0.0317	J	-	641	-	-	-
	6/6/2013	Total	-	884	-	-	-	365	0.021	J	-	638	-	-	-
	6/13/2013	Total	-	916	-	-	-	365	0.0378	J	-	645	-	-	-
	6/20/2013	Total	-	764	-	-	-	342	0.0188	J	-	543	-	-	-
	6/26/2013	Total	-	874	-	-	-	374	-		-	726	-	-	-
	6/27/2013	Total	-	804	-	-	-	391	-		-	744	-	-	-
	6/28/2013	Total	-	713	-	-	-	366	-		-	654	-	-	-
	7/5/2013	Total	-	643	-	-	-	270	< 0.010		-	468	-	-	-
	7/11/2013	Total	-	482	-	-	-	186	< 0.020		-	345	-	-	-
	7/18/2013	Total	-	710	-	-	-	296	0.0321	J	-	499	-	-	-
	7/25/2013	Total	-	544	-	-	-	235	0.0212	J	-	390	-	-	-
	8/1/2013	Total	-	646	-	-	-	269	< 0.020		-	451	-	-	-
	8/8/2013	Total	-	564	-	-	-	245	< 0.020		-	432	-	-	-
	8/15/2013	Total	-	519	-	-	-	222	**0.0503**	J	-	380	-	-	-
	8/22/2013	Total	-	543	-	-	-	217	< 0.020		-	340	-	-	-
	8/29/2013	Total	-	598	-	-	-	280	0.0197	J	-	469	-	-	-

Table 8

Historical Groundwater Sampling Analytical Results for Metals and General Chemistry Parameters
Nu-West CPO Facility
Soda Springs, Idaho

		Alkalinity (mg/l)					Anions (mg/l)							
Well ID	**Sample Date**	**Total Alkalinity (as CaCO3)**	**Alkalinity, Bicarbonate (as CaCO3)**	**Alkalinity, Bicarbonate (as HCO3)**	**Alkalinity, Carbonate (as CaCO3)**	**Hardness (as CaCO3)**	**Chloride**		**Fluoride**	**Nitrate + Nitrite (as N)**	**Nitrate (as N)**	**Nitrite (as N)**	**Sulfate**	**Sulfide**
EPA MCL		NS	NS	NS	NS	NS	NS		4	NS	10	1	NS	NS
Idaho Groundwater Standard		NS	NS	NS	NS	NS	250		4	NS	10	1	250	NS
Groundwater Monitoring Wells														
A-34-022	11/14/2012	-	-	-	-	-	-		-	-	-	-	-	-
	12/6/2012	< 5	< 5	< 5	< 5	8,387	< 10		**3,589**	-	< 10	< 1	**20,405**	-
	12/20/2012	< 0.60	< 5.0	< 5.0	< 5.0	7,310	**258**	J	**3,290**	< 20	< 10	< 10	**21,200**	< 0.28
	1/23/2013	< 0.60	< 5.0	< 5.0	< 5.0	-	< 160		**2,410**	-	< 10	-	**18,000**	-
	1/31/2013	< 0.60	< 5.0	< 5.0	< 5.0	-	< 160		**2,180**	-	< 10	-	**20,900**	-
	2/7/2013	< 0.60	< 5.0	< 5.0	< 5.0	-	< 160		**2,310**	-	< 10	-	**18,500**	-
	2/14/2013	< 0.6	< 5	< 5.0	< 5.0	-	< 80		**2,230**	-	< 5	-	**14,800**	-
	2/20/2013	< 0.60	< 5.0	< 5.0	< 5.0	-	85.2	J	**2,360**	-	< 5.0	-	**15,300**	-
	2/27/2013	< 0.60	< 5.0	< 5.0	< 5.0	-	92	J	**2,230**	-	< 5.0	-	**13,400**	-
	3/7/2013	< 0.60	< 5.0	< 5.0	< 5.0	-	< 400		**2,070**	-	< 25	-	**12,500**	-
	3/14/2013	< 0.60	< 5.0	< 5.0	< 5.0	-	80.4	J	**2,220**	-	< 5.0	-	**10,300**	-
	3/20/2013	< 0.60	< 5.0	< 5.0	< 5.0	-	94.5	J	**2,220**	-	< 5.0	-	**11,500**	-
	3/28/2013	< 0.60	< 5.0	< 5.0	< 5.0	-	116	J	**4,050**	-	< 5.0	-	**24,100**	-
	4/4/2013	< 0.60	< 5.0	< 5.0	< 5.0	-	**449**		**4,640**	-	**10.2**	-	**15,500**	-
	4/11/2013	< 0.60	< 5.0	< 5.0	< 5.0	-	93.6	J	**6,320**	-	< 5.0	-	**12,900**	-
	4/18/2013	< 0.60	< 5.0	< 5.0	< 5.0	-	110	J	**5,540**	-	< 5.0	-	**13,600**	-
	4/25/2013	< 0.60	< 5.0	< 5.0	< 5.0	-	< 160		**4,590**	-	< 10	-	**11,500**	-
	5/2/2013	< 0.60	< 5.0	< 5.0	< 5.0	-	< 160		**5,480**	-	< 10	-	**12,700**	-
	5/9/2013	< 0.60	< 5.0	< 5.0	< 5.0	-	123		**7,060**	-	< 5.0	-	**9,820**	-
	5/15/2013	< 0.60	< 5.0	< 5.0	< 5.0	-	128		**8,790**	-	< 5.0	-	**12,800**	-
	5/22/2013	< 0.60	< 5.0	< 5.0	< 5.0	-	121		**5,180**	-	< 5.0	-	**11,000**	-
	5/30/2013	< 0.60	< 5.0	< 5.0	< 5.0	-	-		-	-	-	-	-	-
	6/6/2013	< 0.60	< 5.0	< 5.0	< 5.0	-	172		**5,280**	-	< 5.0	-	**13,000**	-
	6/13/2013	< 0.60	< 5.0	< 5.0	< 5.0	-	183		**5,960**	-	< 5.0	-	**11,600**	-
	6/20/2013	< 0.60	< 5.0	< 5.0	< 5.0	-	237		**4,910**	-	< 5.0	-	**10,900**	-
	6/26/2013	-	-	-	< 5	-	202		**1,832**	-	**41.08**	-	**14,973**	-
	6/27/2013	-	-	-	< 5	-	234		**2,111**	-	**42.55**	-	**18,409**	-
	6/28/2013	-	-	-	< 5	-	184		**694.9**	-	7	-	**9,882**	-
	7/5/2013	< 0.60	< 5.0	< 5.0	< 5.0	-	158	J	**3,840**	-	7.6	J -	**8,850**	-
	7/11/2013	< 0.60	< 5.0	< 5.0	< 5.0	-	186	J	**3,610**	-	7.6	J -	**8,970**	-
	7/18/2013	< 0.60	< 5.0	< 5.0	< 5.0	-	136	J	**4,650**	-	7.8	J -	**9,630**	-
	7/25/2013	< 0.60	< 5.0	< 5.0	< 5.0	-	**275**		**4,190**	-	7.9	J -	**9,190**	-
	8/1/2013	< 0.60	< 5.0	< 5.0	< 5.0	-	143	J	**5,350**	-	7.2	J -	**8,450**	-
	8/8/2013	< 0.60	< 5.0	< 5.0	< 5.0	-	156	J	**4,720**	-	5.8	J -	**8,610**	-
	8/15/2013	< 0.60	< 5.0	< 5.0	< 5.0	-	118	J	**4,050**	-	5.1	J -	**7,990**	-
	8/22/2013	< 0.60	< 5.0	< 5.0	< 5.0	-	140	J	**3,630**	-	5.3	J -	**8,790**	-
	8/29/2013	< 0.60	< 5.0	< 5.0	< 5.0	-	157	J	**3,320**	-	9.9	J -	**7,350**	-

Table 8

Historical Groundwater Sampling Analytical Results for Metals and General Chemistry Parameters
Nu-West CPO Facility
Soda Springs, Idaho

		General Chemistry				Nitrogen Species (mg/l)			Phosphorus Species (mg/l)		Charge Balance		
Well ID	Sample Date	pH (S.U.)	Specific Conductance (µmhos/cm)	Total Dissolved Solids	Total Suspended Solids	Ammonia (as N)	Total Nitrogen	Total Kjeldahl Nitrogen	Ortho-phosphate (as PO4)	Total Phosphorus	Total Cations (meq/l)	Total Anions (meq/l)	Charge Balance Error
	EPA MCL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	Idaho Groundwater Standard	6.5 - 8.5	NS	500	NS	NS	NS	NS	NS	NS	NS	NS	NS
Groundwater Monitoring Wells													
A-34-022	11/14/2012	**2.00**	-	-	-	-	-	-	-	-	-	-	-
	12/6/2012	**2.40**	18,630	**40,098**	4	76.03	82.6	80.3	8,273	2,654	237.23	875.10	-57.34%
	12/20/2012	**2.25**	22,200	**20,800**	170	55.3	126	126	2,010	3,260	201.78	685.34	-54.51%
	1/23/2013	**2.22**	19,600	**27,100**	-	-	-	-	2,210	2,260	339.19	571.44	-25.50%
	1/31/2013	**2.19**	20,900	**38,800**	-	-	-	-	1,830	1,430	485.92	607.70	-11.14%
	2/7/2013	**2.31**	19,000	**32,200**	-	-	-	-	1,630	2,460	441.32	558.26	-11.70%
	2/14/2013	**2.28**	18,400	**25,300**	-	-	-	-	1,140	2,850	487.55	461.54	2.74%
	2/20/2013	**2.10**	17,200	**72,000**	-	-	-	-	1,680	7,920	477.66	498.25	-2.11%
	2/27/2013	**2.02**	16,000	**18,300**	-	-	-	-	2,950	1,960	369.45	492.16	-14.24%
	3/7/2013	**2.28**	15,500	**18,800**	-	-	-	-	716	1,790	372.15	391.83	-2.58%
	3/14/2013	**2.27**	14,000	**25,500**	-	-	-	-	1,670	1,520	367.72	386.33	-2.47%
	3/20/2013	**2.26**	12,700	**26,100**	-	-	-	-	1,870	2,220	369.31	418.03	-6.19%
	3/28/2013	**2.25**	16,500	**19,100**	-	-	-	-	1,920	2,200	334.18	778.88	-39.95%
	4/4/2013	**2.34**	15,300	**28,300**	-	-	-	-	1,800	2,150	331.82	637.22	-31.52%
	4/11/2013	**4.71**	14,800	**25,100**	-	-	-	-	2,240	2,330	300.87	674.66	-38.32%
	4/18/2013	**2.27**	14,200	**20,500**	-	-	-	-	3,430	4,000	337.35	686.23	-34.08%
	4/25/2013	**2.33**	14,500	**20,500**	-	-	-	-	1,710	3,140	336.20	535.07	-22.83%
	5/2/2013	**2.31**	13,600	**19,400**	-	-	-	-	1,930	2,700	343.50	613.85	-28.24%
	5/9/2013	**2.31**	14,000	**24,600**	-	-	-	-	21,700	15,600	316.36	1265.06	-59.99%
	5/15/2013	**2.16**	12,900	**20,900**	-	-	-	-	1,860	2,570	342.59	791.57	-39.59%
	5/22/2013	**2.30**	11,200	**20,500**	-	-	-	-	2,400	3,690	330.39	580.92	-27.49%
	5/30/2013	**-**	-	-	-	-	-	-	-	-	-	-	-
	6/6/2013	**2.33**	11,000	**20,200**	-	-	-	-	1,710	4,230	322.21	607.47	-30.68%
	6/13/2013	**2.37**	13,900	**16,900**	-	-	-	-	1,830	1,900	330.74	618.22	-30.29%
	6/20/2013	**2.20**	13,000	**21,500**	-	-	-	-	2,420	2,070	281.37	568.53	-33.79%
	6/26/2013	**2.20**	14,420	**25,942**	-	-	-	-	5,298	1,833	400.17	584.19	-18.69%
	6/27/2013	**2.70**	14,250	**24,214**	-	-	-	-	5,083	1,674	369.35	664.61	-28.56%
	6/28/2013	**2.20**	12,860	**21,368**	-	-	-	-	4,519	1,687	342.29	390.77	-6.61%
	7/5/2013	**2.31**	10,100	**16,900**	-	-	-	-	1,500	1,570	246.56	438.78	-28.05%
	7/11/2013	**2.44**	10,600	**14,300**	-	-	-	-	1,150	1,270	184.07	418.90	-38.95%
	7/18/2013	**2.35**	12,900	**19,600**	-	-	-	-	1,730	2,080	260.65	504.32	-31.85%
	7/25/2013	**2.39**	12,800	**16,200**	-	-	-	-	1,550	1,630	208.56	469.18	-38.45%
	8/1/2013	**2.45**	12,200	**15,900**	-	-	-	-	1,450	1,730	247.90	507.91	-34.40%
	8/8/2013	**2.54**	12,900	**15,900**	-	-	-	-	1,500	1,570	220.48	479.92	-37.04%
	8/15/2013	**2.40**	12,500	**15,800**	-	-	-	-	1,390	1,880	197.21	427.15	-36.83%
	8/22/2013	**2.47**	12,400	**15,500**	-	-	-	-	1,240	4,980	206.39	417.59	-33.85%
	8/29/2013	**2.58**	11,200	**13,700**	-	-	-	-	1,060	4,310	242.66	366.41	-20.32%

Table 8

Historical Groundwater Sampling Analytical Results for Metals and General Chemistry Parameters
Nu-West CPO Facility
Soda Springs, Idaho

Well ID	Sample Date	Total or Dissolved	Metals (mg/l) Aluminum		Antimony		Arsenic		Barium		Beryllium		Cadmium		Calcium	Chromium		Cobalt		Copper	Iron	
EPA MCL			NS		0.006		0.01		2		0.004		0.005		NS	0.1		NS		1.3	NS	
Idaho Groundwater Standard			0.2		0.006		0.05		2		0.004		0.005		NS	0.1		NS		1.3	0.3	
Groundwater Monitoring Wells																						
A-35-080	12/19/2012	Dissolved	-		0.0049	J	**0.0101**		0.096	J	< 0.00050		0.0007	J	512	< 0.0020		-		-	-	
	2/13/2013	Dissolved	<0.015		0.0016	J	**0.013**		-		-		<0.0005		457	<0.002		-		-	<0.029	
	3/11/2013	Total	0.072	J	0.0014	J	**0.0118**		-		-		< 0.00050		455	< 0.0020		-		-	0.0948	J
	4/2/2013	Total	0.0548	J	<0.0013		**0.0131**		-		-		< 0.00050		448	< 0.0020		-		-	0.168	J
	5/21/2013	Total	0.0582	J	0.0055	J	**0.0113**		-		-		0.0011	J	502	< 0.0020		-		-	0.036	J
	6/12/2013	Total	0.0313	J	0.0050	J	**0.0139**		-		-		0.0012	J	475	< 0.0020		-		-	< 0.029	
	7/17/2013	Total	0.1360	J	<0.0013		**0.0132**		-		-		0.0011	J	464	< 0.0020		-		-	0.123	J
	8/28/2013	Total	**0.8370**		<0.0013		**0.0143**		-		-		0.0016	J	435	0.0023	J	-		-	**1.22**	
A-35-155	12/17/2012	Dissolved	-		0.0027	J	< 0.0025		0.0472	J	< 0.0005		< 0.0005		385	< 0.002		-		-	-	
	2/13/2013	Dissolved	<0.015		<0.0013		<0.0025		-		-		<0.0005		370	<0.002		-		-	<0.029	
	3/14/2013	Total	0.0457	J	0.0027	J	< 0.0025		-		-		< 0.00050		376	< 0.0020		-		-	**0.762**	
	4/2/2013	Total	0.0224	J	<0.0013		0.0027	J	-		-		< 0.00050		353	< 0.0020		-		-	**0.311**	
	5/20/2013	Total	< 0.015		< 0.0013		< 0.0025		-		-		< 0.00050		364	< 0.0020		-		-	0.0588	J
	6/10/2013	Total	0.0258		0.0022	J	<0.0025		-		-		< 0.00050		383	< 0.0020		-		-	0.0832	J
	7/18/2013	Total	0.0281	J	< 0.0013		0.0025	J	-		-		< 0.00050		378	< 0.0020		-		-	0.043	J
	8/26/2013	Total	<0.015		< 0.0013		0.0045	J	-		-		< 0.00050		365	< 0.0020		-		-	0.0297	J
A-36-105	12/19/2012	Dissolved	-		**0.0106**		< 0.0025		0.0276	J	< 0.00050		**0.0208**		488	0.0162		-		-	-	
	2/14/2013	Dissolved	**0.8**		< 0.0013		<0.0025		-		-		**0.0131**		425	0.0062	J	-		-	**2.96**	
	3/15/2013	Total	**0.907**		**0.0092**		< 0.0025		-		-		**0.0455**		428	0.0122		-		-	**3.72**	
	4/2/2013	Total	**0.7**		< 0.033		< 0.0025		-		-		**0.0201**		396	0.0037	J	-		-	**2.65**	
	5/22/2013	Total	**0.575**		**0.0143**		< 0.0025		-		-		**0.0081**		501	0.0119		-		-	**1.77**	
	6/12/2013	Total	**0.51**		**0.0097**		<0.0025		-		-		< 0.0005		450	< 0.002		-		-	**0.696**	
	7/17/2013	Total	**0.207**		**0.006**		<0.0025		-		-		**0.0421**		441	< 0.002		-		-	0.0371	J
	8/28/2013	Total	**11.4**		< 0.0013		0.0033	J	-		-		**0.0844**		303	0.0046	J	-		-	**4.51**	
A-36-145	12/19/2012	Dissolved	-		0.0041	J	< 0.0025		0.0354	J	< 0.00050		< 0.0010		634	< 0.0040		-		-	-	
	2/14/2013	Dissolved	<0.015		0.0057	J	<0.0025		-		-		<0.001		662	<0.004		-		-	<0.029	
	3/15/2013	Total	0.052	J	0.0055	J	< 0.0025		-		-		< 0.0020		693	< 0.0080		< 0.0040		< 0.0040	**1.49**	
	4/3/2013	Total	<0.015		<0.0026		< 0.0025		-		-		< 0.0010		663	< 0.0040		< 0.0040		< 0.0040	**1.29**	
	5/21/2013	Total	0.0498	J	0.0058	J	< 0.0025		-		-		< 0.0020		735	< 0.0080		-		-	**0.615**	
	6/12/2013	Total	0.0254	J	**0.0071**	J	<0.0025		-		-		< 0.0020		660	< 0.0080		-		-	0.246	J
	7/17/2013	Total	0.0432	J	< 0.0013		<0.0025		-		-		< 0.0005		590	< 0.0020		-		-	0.161	J
	8/28/2013	Total	0.0318	J	<0.0026		0.003	J	-		-		< 0.0010		621	< 0.0040		-		-	**0.474**	
MW-A-110	10/7/2010	Dissolved	**4.82**		0.0023	J	0.0039	J	< 0.0050		< 0.0010		**0.0256**		303	< 0.0010		0.0714		0.0189	J	< 0.035	
	5/16/2011	Dissolved	**6.84**		0.00012	J	< 0.0020		< 0.0050		< 0.0010		**0.0295**		291	0.0017	J	0.0782		0.016	J	< 0.035	
	10/18/2011	Dissolved	**3.84**		0.0032	J	0.0039	J	0.0085	J	< 0.0010		**0.0214**		315	0.0028	J	0.0636		0.0433		< 0.035	
	5/31/2012	Dissolved	**4.85**		< 0.0020		0.0043	J	0.0065	J	< 0.0010		**0.0241**		332	0.0018	J	0.0799		0.0205	J	< 0.035	
	10/16/2012	Dissolved	**2.83**		< 0.0013		0.0055	J	0.0065	J	< 0.00050		**0.0215**		342	0.0031	J	0.0703		0.0199	J	< 0.029	
	2/15/2013	Dissolved	**5.41**		0.0023	J	0.0066	J	-		-		**0.0264**		351	<0.002		-		-	<0.029	
	3/11/2013	Total	**2.18**		< 0.0013		0.0055	J	-		-		**0.0197**		377	< 0.0020		-		-	**0.48**	
	4/3/2013	Total	**1.16**		< 0.0013		0.0044	J	-		-		**0.0148**		366	< 0.0020		-		-	0.273	J
	5/23/2013	Total	**2.91**		< 0.0013		0.0062	J	-		-		**0.0199**		346	< 0.0020		-		-	0.098	J
	6/14/2013	Total	**4.11**		< 0.0013		0.0051	J	-		-		**0.0222**		318	< 0.0020		-		-	**0.424**	
	7/19/2013	Total	**2.86**		< 0.0013		0.007	J	-		-		**0.025**		340	< 0.0020		-		-	< 0.029	
	8/29/2013	Total	**2.46**		< 0.0013		0.0086	J	-		-		**0.0215**		345	< 0.0020		-		-	0.079	J

Table 8

Historical Groundwater Sampling Analytical Results for Metals and General Chemistry Parameters
Nu-West CPO Facility
Soda Springs, Idaho

Well ID	Sample Date	Total or Dissolved	Metals (mg/l) Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc
	EPA MCL		0.015	NS	NS	0.002	NS	NS	0.05	NS	NS	0.002	NS	NS
	Idaho Groundwater Standard		0.015	NS	0.05	0.002	NS	NS	0.05	0.1	NS	0.002	NS	5
Groundwater Monitoring Wells														
A-35-080	12/19/2012	Dissolved	< 0.0011	335	-	-	0.0385 J	53.4	< 0.0020	-	239	< 0.0019	0.0102 J	-
	2/13/2013	Dissolved	-	290	-	-	-	49.4	0.0036 J	-	212	-	-	-
	3/11/2013	Total	-	287	-	-	-	47.4	0.0027 J	-	228	-	-	-
	4/2/2013	Total	-	274	-	-	-	48.3	< 0.0020	-	220	-	-	-
	5/21/2013	Total	-	327	-	-	-	50.9	0.0028 J	-	217	-	-	-
	6/12/2013	Total	-	322	-	-	-	52.8	< 0.0020	-	235	-	-	-
	7/17/2013	Total	-	310	-	-	-	50.7	0.0046 J	-	240	-	-	-
	8/28/2013	Total	-	281	-	-	-	46	0.0024 J	-	216	-	-	-
A-35-155	12/17/2012	Dissolved	< 0.0011	167	-	-	0.0037 J	8.96 J	0.0021 J	-	74.5	< 0.0019	0.003 J	-
	2/13/2013	Dissolved	-	161	-	-	-	9.21 J	0.0033 J	-	77.3	-	-	-
	3/14/2013	Total	-	169	-	-	-	9.29 J	< 0.0020	-	79.4	-	-	-
	4/2/2013	Total	-	152	-	-	-	8.48 J	0.0027 J	-	72.4	-	-	-
	5/20/2013	Total	-	164	-	-	-	8.97 J	< 0.0020	-	76.4	-	-	-
	6/10/2013	Total	-	175	-	-	-	9.72 J	0.0029 J	-	83.7	-	-	-
	7/18/2013	Total	-	168	-	-	-	9.39 J	0.003 J	-	79.9	-	-	-
	8/26/2013	Total	-	162	-	-	-	9.32 J	< 0.0020	-	79.2	-	-	-
A-36-105	12/19/2012	Dissolved	0.0071	538	-	-	0.172	53.6	0.0074 J	-	226	< 0.0019	< 0.10	-
	2/14/2013	Dissolved	-	458	-	-	-	40.9	0.0435	-	207	-	-	-
	3/15/2013	Total	-	500	-	-	-	42.1	0.0075 J	-	214	-	-	-
	4/2/2013	Total	-	438	-	-	-	38.7	< 0.050	-	203	-	-	-
	5/22/2013	Total	-	584	-	-	-	48.3	0.0092 J	-	217	-	-	-
	6/12/2013	Total	-	532	-	-	-	46.5	< 0.0020	-	193	-	-	-
	7/17/2013	Total	-	516	-	-	-	45.2	0.0224	-	209	-	-	-
	8/28/2013	Total	-	375	-	-	-	28.6	0.0026 J	-	189	-	-	-
A-36-145	12/19/2012	Dissolved	0.0057 J	415	-	-	0.0055 J	12.1	0.0045 J	-	106	< 0.0019	< 0.0010	-
	2/14/2013	Dissolved	-	370	-	-	-	10.6	<0.004	-	113	-	-	-
	3/15/2013	Total	-	413	-	-	-	10.5	< 0.0080	-	121	-	-	-
	4/3/2013	Total	-	389	-	-	-	10.7	< 0.0040	-	115	-	-	-
	5/21/2013	Total	-	465	-	-	-	11.3	< 0.0080	-	126	-	-	-
	6/12/2013	Total	-	428	-	-	-	11	< 0.0080	-	110	-	-	-
	7/17/2013	Total	-	376	-	-	-	10	< 0.0020	-	104	-	-	-
	8/28/2013	Total	-	377	-	-	-	10.4	< 0.0040	-	109	-	-	-
MW-A-110	10/7/2010	Dissolved	< 0.0010	224	**13.8**	< 0.000071	0.275	20.8	0.0061 J	0.0017 J	117	0.00099 J	0.0066 J	0.105
	5/16/2011	Dissolved	0.00019 J	199	**11.9**	0.000083 J	0.256	19	0.0041 J	< 0.0010	127	0.00072 J	< 0.0010	0.121
	10/18/2011	Dissolved	< 0.0010	200	**11.5**	< 0.000050	0.219	17.8	0.0032 J	< 0.0010	132	0.00068 J	0.0059 J	0.108
	5/31/2012	Dissolved	0.0019 J	233	**11.1**	< 0.000050	0.276	21.3	0.0077 J	0.0014 J	140	0.00078 J	0.0072 J	0.126
	10/16/2012	Dissolved	0.0047 J	237	**12.6**	< 0.000030	0.277	23.9	0.0035 J	0.0008 J	148	0.001	0.0135 J	0.0814
	2/15/2013	Dissolved	-	252	-	-	-	24.9	0.0062 J	-	166	-	-	-
	3/11/2013	Total	-	254	-	-	-	23.7	0.004 J	-	165	-	-	-
	4/3/2013	Total	-	241	-	-	-	23.7	0.0064 J	-	147	-	-	-
	5/23/2013	Total	-	241	-	-	-	24	0.004 J	-	156	-	-	-
	6/14/2013	Total	-	220	-	-	-	22.1	0.0068 J	-	135	-	-	-
	7/19/2013	Total	-	238	-	-	-	23.7	0.0109	-	146	-	-	-
	8/29/2013	Total	-	236	-	-	-	23.3	0.0025 J	-	144	-	-	-

Table 8

Historical Groundwater Sampling Analytical Results for Metals and General Chemistry Parameters
Nu-West CPO Facility
Soda Springs, Idaho

		Alkalinity (mg/l)					Anions (mg/l)									
Well ID	**Sample Date**	**Total Alkalinity (as CaCO3)**	**Alkalinity, Bicarbonate (as CaCO3)**	**Alkalinity, Bicarbonate (as HCO3)**	**Alkalinity, Carbonate (as CaCO3)**	**Hardness (as CaCO3)**	**Chloride**	**Fluoride**		**Nitrate + Nitrite (as N)**		**Nitrate (as N)**		**Nitrite (as N)**		**Sulfate**	**Sulfide**
	EPA MCL	NS	NS	NS	NS	NS	NS	4		NS		10		1		NS	NS
	Idaho Groundwater Standard	NS	NS	NS	NS	NS	250	4		NS		10		1		250	NS
Groundwater Monitoring Wells																	
A-35-080	12/19/2012	700	698	852	< 5.0	2,660	161	1.7	J	57.3		**56.4**		0.85	J	**1,980**	< 0.20
	2/13/2013	628	627	765	< 5.0	-	144	2.7	J	-		**58.1**		-		**2,080**	-
	3/11/2013	650	650	793	< 5.0	-	137	3.4	J	-		**53.4**		-		**1,910**	-
	4/2/2013	678	678	827	< 5.0	-	76.1	1.5	J	-		< 1.3		-		**1,990**	-
	5/21/2013	659	659	804	< 5.0	-	160	1.5	J	-		**66.8**		-		**2,040**	-
	6/12/2013	705	705	860	< 5.0	-	180	< 1.5		-		**72.4**		-		**2,200**	-
	7/17/2013	623	623	760	< 5.0	-	174	< 1.5		-		**69**		-		**2,150**	-
	8/28/2013	788	788	961	< 5.0	-	164	< 1.5		-		**64.2**		-		**2,150**	-
A-35-155	12/17/2012	375	375	458	< 5	1,650	35.4	< 0.6		1.4	J	1.4		< 0.5		**1,240**	< 0.19
	2/13/2013	376	376	459	< 5.0	-	31.3	< 0.60		-		1.8		-		**1,230**	-
	3/14/2013	362	361	440	< 5.0	-	31	< 0.60		-		1.8		-		**1,380**	-
	4/2/2013	376	375	458	< 5.0	-	29.4	< 0.60		-		2.4		-		**1,340**	-
	5/20/2013	360	360	439	< 5.0	-	34.5	< 0.60		-		0.99	J	-		**1,310**	-
	6/10/2013	376	376	459	< 5.0	-	41.7	< 0.60		-		1.3		-		**1,280**	-
	7/18/2013	344	344	420	< 5.0	-	35.5	< 0.60		-		1.5		-		**1,350**	-
	8/26/2013	417	416	508	< 5.0	-	42.4	< 0.60		-		2.1		-		**1,330**	-
A-36-105	12/19/2012	202	202	246	< 5.0	3,430	84.2	2.1		< 1.8		< 1.3		< 0.50		**3,650**	< 0.19
	2/14/2013	156	156	190	< 5.0	-	70.9	3.3	J	-		2.1	J	-		**3,700**	-
	3/15/2013	167	167	204	< 5.0	-	< 20	< 1.5		-		< 1.3		-		**3,710**	-
	4/2/2013	173	173	211	< 5.0	-	76.1	2.1	J	-		< 1.3		-		**3,710**	-
	5/22/2013	148	148	181	< 5.0	-	88.6	2	J	-		< 1.3		-		**3,760**	-
	6/12/2013	187	187	228	< 5.0	-	86.1	1.8	J	-		< 1.3		-		**3,890**	-
	7/17/2013	160	160	195	< 5.0	-	3.3	< 1.5		-		< 0.050		-		**3,770**	-
	8/28/2013	61	61	74	< 5.0	-	102	**44.7**		-		**12.5**		-		**3,910**	-
A-36-145	12/19/2012	520	519	633	< 5.0	3,290	75.4	< 0.60		< 1.0		0.92	J	< 0.50		**2,670**	< 0.19
	2/14/2013	550	550	671	< 5.0	-	64.5	< 1.5		-		< 1.3		-		**2,640**	-
	3/15/2013	565	565	689	< 5.0	-	77.4	< 0.60		-		< 0.50		-		**2,610**	-
	4/3/2013	535	535	653	< 5.0	-	77.9	< 1.5		-		< 1.3		-		**2,680**	-
	5/21/2013	619	619	755	< 5.0	-	80.1	< 0.60		-		0.67	J	-		**2,890**	-
	6/12/2013	555	555	677	< 5.0	-	84.3	< 1.5		-		< 1.3		-		**2,960**	-
	7/17/2013	560	560	683	< 5.0	-	77.4	< 1.5		-		< 1.3		-		**2,740**	-
	8/28/2013	638	637	777	< 5.0	-	87.7	< 1.5		-		< 1.3		-		**2,610**	-
MW-A-110	10/7/2010	49.6	50	61	< 5.0	1,680	**450**	**15.8**		203		**202**		**1.2**		**1,010**	< 0.60
	5/16/2011	40.5	40.5	49	< 5.0	-	**304**	**13.8**		204		**204**		-		**533**	-
	10/18/2011	37.8	37.8	46	< 5.0	1,610	**1,030**	**10.9**		196		**192**		**3.6**		**1,850**	< 0.30
	5/31/2012	9.3	9.3	11	< 5.0	1,790	**359**	**17**		196		**194**		**1.5**	J	**884**	0.93 J
	10/16/2012	86	86	105	< 5.0	1,830	**349**	**10**		198		**198**		< 0.50		**1,090**	< 0.19
	2/15/2013	63.2	63.2	77	< 5.0	-	**300**	**13.6**		-		**238**		-		**1,200**	-
	3/11/2013	86.7	86.7	106	< 5.0	-	**343**	**7.6**		-		**211**		-		**1,060**	-
	4/3/2013	77.1	77.1	94	< 5.0	-	**468**	**5.2**	J	-		**234**		-		**1,020**	-
	5/23/2013	70.9	70.9	86	< 5.0	-	**935**	**18.3**		-		**213**		-		**808**	-
	6/14/2013	61.9	61.9	76	< 5.0	-	**431**	**17.7**		-		**222**		-		**1,020**	-
	7/19/2013	53	53	65	< 5.0	-	**400**	**9**		-		**230**		-		**1,020**	-
	8/29/2013	84.4	84.4	103	< 5.0	-	**403**	**11.8**		-		**223**		-		**1,030**	-

Table 8

Historical Groundwater Sampling Analytical Results for Metals and General Chemistry Parameters
Nu-West CPO Facility
Soda Springs, Idaho

Well ID	Sample Date	General Chemistry				Nitrogen Species (mg/l)			Phosphorus Species (mg/l)		Charge Balance		
		pH (S.U.)	Specific Conductance (µmhos/cm)	Total Dissolved Solids	Total Suspended Solids	Ammonia (as N)	Total Nitrogen	Total Kjeldahl Nitrogen	Ortho-phosphate (as PO4)	Total Phosphorus	Total Cations (meq/l)	Total Anions (meq/l)	Charge Balance Error
	EPA MCL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	Idaho Groundwater Standard	6.5 - 8.5	NS	500	NS	NS	NS	NS	NS	NS	NS	NS	NS
Groundwater Monitoring Wells													
A-35-080	12/19/2012	7.04	4,660	**3,510**	77	110	336	279	32.6	28.3	64.88	64.89	-0.01%
	2/13/2013	6.50	4,530	**3,440**	-	-	-	-	257	31.7	57.15	72.32	-11.71%
	3/11/2013	6.50	4,410	**3,650**	-	-	-	-	26.8	27.1	57.46	61.47	-3.37%
	4/2/2013	6.54	4,870	**3,790**	-	-	-	-	28.9	44.4	55.72	58.13	-2.11%
	5/21/2013	**6.38**	4,120	**3,830**	-	-	-	-	27.6	145	62.71	65.89	-2.47%
	6/12/2013	**6.44**	4,690	**4,230**	-	-	-	-	26	49.4	61.78	70.97	-6.93%
	7/17/2013	6.59	5,420	**4,670**	-	-	-	-	31.8	81	60.42	68.06	-5.95%
	8/28/2013	**6.08**	5,500	**3,830**	-	-	-	-	25.9	72.4	55.54	70.55	-11.91%
A-35-155	12/17/2012	7.32	2,270	**2,130**	15	0.099 J	1.9 J	0.52 J	0.41	0.42	36.42	34.43	2.82%
	2/13/2013	7.04	2,320	**2,240**	-	-	-	-	3.6	2.1	35.31	34.25	1.52%
	3/14/2013	7.16	2,280	**2,300**	-	-	-	-	0.73 J	2.8	36.39	36.98	-0.79%
	4/2/2013	7.02	2,350	**2,350**	-	-	-	-	0.64	3.1	33.50	36.42	-4.17%
	5/20/2013	7.07	2,070	**2,370**	-	-	-	-	0.69	1.5	35.21	35.54	-0.46%
	6/10/2013	7.00	2,500	**2,450**	-	-	-	-	0.33	2.2	37.41	35.45	2.69%
	7/18/2013	7.15	2,680	**2,460**	-	-	-	-	0.69	0.96	36.41	36.12	0.40%
	8/26/2013	6.98	2,610	**2,350**	-	-	-	-	0.61	0.81	35.23	37.37	-2.95%
A-36-105	12/19/2012	**6.16**	4,730	**4,840**	18	15.4	44.7	44.7	0.28	0.17 J	79.83	82.53	-1.66%
	2/14/2013	**6.01**	4,780	**4,970**	-	-	-	-	0.19 J	0.85	69.14	82.48	-8.80%
	3/15/2013	**6.09**	4,290	**5,240**	-	-	-	-	0.45	0.55	73.12	80.60	-4.86%
	4/2/2013	**6.05**	5,070	**5,280**	-	-	-	-	0.64	0.45	65.80	82.98	-11.55%
	5/22/2013	**6.01**	4,070	**5,180**	-	-	-	-	0.38	0.39	83.86	83.86	0.00%
	6/12/2013	**6.09**	4,800	**5,880**	-	-	-	-	0.16	0.17	75.90	87.26	-6.96%
	7/17/2013	**6.24**	5,430	**4,660**	-	-	-	-	< 0.020	0.3	74.74	81.78	-4.50%
	8/28/2013	**5.18**	5,700	**6,180**	-	-	-	-	0.11	0.049 J	56.36	88.75	-22.32%
A-36-145	12/19/2012	7.10	3,710	**4,170**	27	1.2	2.9	2.9	0.05 J	0.22	70.71	68.16	1.83%
	2/14/2013	6.83	3,970	**4,630**	-	-	-	-	0.097 J	0.097 J	68.67	67.79	0.65%
	3/15/2013	6.87	3,770	**4,180**	-	-	-	-	0.15	0.058 J	74.16	67.83	4.46%
	4/3/2013	6.87	4,330	**4,690**	-	-	-	-	0.11 J	< 0.028	70.42	68.70	1.24%
	5/21/2013	6.79	3,490	**4,990**	-	-	-	-	0.14	0.11	80.74	74.86	3.78%
	6/12/2013	6.85	4,010	**4,010**	-	-	-	-	0.19	0.13	73.23	75.11	-1.27%
	7/17/2013	7.06	4,510	**4,540**	-	-	-	-	0.33	0.17	65.17	70.44	-3.88%
	8/28/2013	7.14	4,460	**4,360**	-	-	-	-	0.13	< 0.028	67.04	69.56	-1.84%
MW-A-110	10/7/2010	**5.53**	3,000	**2,290**	< 4.0	102	273	69.7	14.6	21	40.22	50.48	-11.31%
	5/16/2011	**5.62**	4,190	**2,960**	9 J	76.2	265	61.4	45.5	6.8	38.11	37.22	1.17%
	10/18/2011	**5.30**	3,880	**4,150**	13	38.9	262	65.6	16.3	25.2	39.23	83.22	-35.93%
	5/31/2012	**5.54**	4,050	**3,200**	7 J	68.4	270	74	25.8	27.3	43.33	44.38	-1.20%
	10/16/2012	**5.60**	3,760	**3,440**	< 4.0	108	310	112	9.1 J	86.1	44.40	49.22	-5.15%
	2/15/2013	**5.56**	4,100	**4,180**	-	-	-	-	10.1	16.7	46.71	52.75	-6.07%
	3/11/2013	**6.03**	4,070	**3,490**	-	-	-	-	13.2	13.9	47.76	49.37	-1.66%
	4/3/2013	**5.80**	4,390	**3,190**	-	-	-	-	13.2	6.7	45.24	53.39	-8.27%
	5/23/2013	**5.50**	3,530	**4,630**	-	-	-	-	15	16	44.82	61.27	-15.50%
	6/14/2013	**5.53**	4,180	**4,150**	-	-	-	-	13.8	21	40.88	51.86	-11.84%
	7/19/2013	**5.61**	4,110	**5,200**	-	-	-	-	19.3	18.7	43.83	51.10	-7.66%
	8/29/2013	**5.65**	4,550	**2,840**	-	-	-	-	11.5	13.8	43.77	51.42	-8.03%

Table 8

Historical Groundwater Sampling Analytical Results for Metals and General Chemistry Parameters
Nu-West CPO Facility
Soda Springs, Idaho

Well ID	Sample Date	Total or Dissolved	Metals (mg/l) Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron
EPA MCL			NS	0.006	0.01	2	0.004	0.005	NS	0.1	NS	1.3	NS
Idaho Groundwater Standard			0.2	0.006	0.05	2	0.004	0.005	NS	0.1	NS	1.3	0.3
Groundwater Monitoring Wells													
MW-B-120	10/7/2010	Dissolved	**65.8**	0.0023 J	**0.0491**	< 0.0050	0.002 J	**0.173**	153	0.006 J	0.19	0.0753	**1**
	5/16/2011	Dissolved	**69.2**	0.00054	**0.0418**	< 0.0050	0.0023 J	**0.173**	142	0.0142	0.0965	0.0685	0.149 J
	10/18/2011	Dissolved	**2.55**	0.0022 J	< 0.0020	< 0.0050	< 0.0010	**0.0156**	109	0.0026 J	0.0067 J	0.0046 J	**0.433**
	5/31/2012	Dissolved	**0.673**	< 0.0020	< 0.0020	< 0.0050	< 0.0010	0.0043 J	131	< 0.0010	0.0015 J	< 0.0020	< 0.035
	10/16/2012	Dissolved	**0.598**	< 0.0013	< 0.0025	< 0.0010	< 0.00050	0.0042 J	130	< 0.0020	0.0012 J	< 0.0010	< 0.029
	2/15/2013	Dissolved	**0.524**	<0.0013	<0.0025	-	-	0.0026 J	142	<0.002	-	-	<0.029
	3/12/2013	Total	**0.455**	< 0.0013	< 0.0025	-	-	0.0023 J	127	< 0.0020	-	-	< 0.029
	4/4/2013	Total	**0.576**	< 0.0013	< 0.0025	-	-	0.0026 J	145	< 0.0020	-	-	< 0.029
	5/23/2013	Total	**0.45**	< 0.0013	< 0.0025	-	-	0.002 J	140	< 0.0020	-	-	< 0.029
	6/14/2013	Total	**0.451**	< 0.0013	< 0.0025	-	-	0.002 J	132	< 0.0020	-	-	0.0304 J
	7/19/2013	Total	**0.466**	< 0.0013	< 0.0025	-	-	0.0029 J	134	< 0.0020	-	-	< 0.029
	8/29/2013	Total	**1.34**	< 0.0013	< 0.0025	-	-	0.0039 J	139	< 0.0020	-	-	**0.435**
Nu-West Production Wells													
NW-09	10/7/2010	Dissolved	**2.05**	< 0.0020	0.003 J	< 0.0050	< 0.0010	**0.0126**	207	< 0.0010	0.015 J	0.0059 J	0.042 J
	5/16/2011	Dissolved	**0.749**	0.00016 J	< 0.0020	0.0088 J	< 0.0010	**0.0057**	144	0.003 J	0.0059 J	0.0022 J	< 0.035
	10/17/2011	Dissolved	**2.76**	< 0.0020	0.0028 J	0.0162 J	< 0.0010	**0.0101**	163	0.0023 J	0.0103 J	0.0057 J	< 0.035
	6/5/2012	Dissolved	**1.76**	< 0.0020	0.0024 J	< 0.0050	< 0.0010	**0.0097**	208	0.0011 J	0.0121 J	0.0041 J	< 0.035
	10/22/2012	Dissolved	**2.16**	0.0025 J	< 0.0025	0.0016 J	< 0.00050	**0.0075**	221	< 0.0020	0.0104 J	0.0038 J	< 0.029
	2/15/2013	Dissolved	**2.19**	<0.0013	<0.0025	-	-	0.0047 J	226	<0.002	-	-	<0.029
	3/12/2013	Total	**2.24**	< 0.0013	< 0.0025	-	-	0.0041 J	202	< 0.0020	-	-	< 0.029
	4/3/2013	Total	**2.68**	< 0.0013	< 0.0025	-	-	**0.0052**	228	< 0.0020	-	-	< 0.029
	5/22/2013	Total	**3.21**	0.0013 J	0.0039 J	-	-	**0.0086**	229	< 0.0020	-	-	0.205 J
	6/13/2013	Total	**22.7**	0.0013 J	0.0048 J	-	-	**0.0161**	169	0.0022 J	-	-	0.034 J
	7/18/2013	Total	**3.65**	< 0.0013	0.005 J	-	-	**0.0094**	231	< 0.0020	-	-	0.109 J
	8/29/2013	Total	**3.28**	< 0.0013	0.0037 J	-	-	**0.0086**	228	< 0.0020	-	-	< 0.029

Table 8

Historical Groundwater Sampling Analytical Results for Metals and General Chemistry Parameters
Nu-West CPO Facility
Soda Springs, Idaho

Well ID	Sample Date	Total or Dissolved	Metals (mg/l) Lead		Magnesium		Manganese	Mercury	Nickel		Potassium		Selenium		Silver		Sodium	Thallium		Vanadium		Zinc	
	EPA MCL		0.015		NS		NS	0.002	NS		NS		0.05		NS		NS	0.002		NS		NS	
	Idaho Groundwater Standard		0.015		NS		0.05	0.002	NS		NS		0.05		0.1		NS	0.002		NS		5	
Groundwater Monitoring Wells																							
MW-B-120	10/7/2010	Dissolved	0.0042	J	238		**12.1**	< 0.000071	1.38		13.6		0.0042	J	0.0016	J	163	0.00077	J	0.0542		2.19	
	5/16/2011	Dissolved	0.00014	J	129		**5.32**	< 0.000050	0.81		14		0.0068	J	< 0.0010		94	0.00063	J	0.0905		2.14	
	10/18/2011	Dissolved	< 0.0010		54.5		**1.01**	< 0.000050	0.0652		5.28	J	0.0131		< 0.0010		35.9	0.00028	J	0.0632		0.11	
	5/31/2012	Dissolved	< 0.0010		52.1		**0.51**	< 0.000050	0.0156	J	4.4	J	0.0211		< 0.0010		31.7	< 0.00016		0.0224	J	0.017	J
	10/16/2012	Dissolved	< 0.0011		49.2		**0.409**	< 0.000030	0.0131	J	4.15	J	0.021		< 0.00050		30.8	0.00036	J	0.0201	J	0.0092	J
	2/15/2013	Dissolved	-		51.8		-	-	-		4.54	J	0.0239		-		33.3	-		-		-	
	3/12/2013	Total	-		48.1		-	-	-		4.05	J	0.0222		-		29.1	-		-		-	
	4/4/2013	Total	-		54.2		-	-	-		4.65	J	0.027		-		33.7	-		-		-	
	5/23/2013	Total	-		53.3		-	-	-		4.5	J	0.0239		-		30.5	-		-		-	
	6/14/2013	Total	-		48.5		-	-	-		4.34	J	0.0232		-		30.1	-		-		-	
	7/19/2013	Total	-		49.5		-	-	-		4.44	J	0.0261		-		30.3	-		-		-	
	8/29/2013	Total	-		53.4		-	-	-		4.79	J	0.0226		-		32	-		-		-	
Nu-West Production Wells																							
NW-09	10/7/2010	Dissolved	< 0.0010		94.8		**1.51**	< 0.000071	0.0922		7.65	J	0.0106		< 0.0010		62.1	0.00033	J	0.017	J	0.111	
	5/16/2011	Dissolved	0.000099	J	59.6		**0.493**	< 0.000050	0.0604		4.18	J	0.0088	J	< 0.0010		71.2	< 0.00016		0.01	J	0.0539	
	10/17/2011	Dissolved	0.0011	J	68.1		**0.773**	< 0.000050	0.0848		5.34	J	0.0324		< 0.0010		66.6	0.00017	J	0.0134	J	0.117	
	6/5/2012	Dissolved	< 0.0010		85.5		**1.09**	< 0.000050	0.0804		7.08	J	0.0076	J	< 0.0010		60.5	0.00017	J	0.0167	J	0.0876	
	10/22/2012	Dissolved	< 0.0011		89.1		**0.996**	< 0.000030	0.0689		7.21	J	0.0102		< 0.00050		63.7	< 0.00019		0.0162	J	0.0717	
	2/15/2013	Dissolved	-		87.9		-	-	-		7.32	J	0.0117		-		63.4	-		-		-	
	3/12/2013	Total	-		80.0		-	-	-		6.31	J	0.0107		-		55.7	-		-		-	
	4/3/2013	Total	-		91.5		-	-	-		7.34	J	0.0122		-		63.1	-		-		-	
	5/22/2013	Total	-		94.8		-	-	-		7.49	J	0.0105		-		65.8	-		-		-	
	6/13/2013	Total	-		62.9		-	-	-		6.27	J	0.0082	J	-		44.3	-		-		-	
	7/18/2013	Total	-		96.5		-	-	-		7.69	J	0.0143		-		65.4	-		-		-	
	8/29/2013	Total	-		94.3		-	-	-		7.48	J	0.0102		-		66.2	-		-		-	

Table 8

Historical Groundwater Sampling Analytical Results for Metals and General Chemistry Parameters
Nu-West CPO Facility
Soda Springs, Idaho

		Alkalinity (mg/l)					Anions (mg/l)						
Well ID	**Sample Date**	**Total Alkalinity (as CaCO3)**	**Alkalinity, Bicarbonate (as CaCO3)**	**Alkalinity, Bicarbonate (as HCO3)**	**Alkalinity, Carbonate (as CaCO3)**	**Hardness (as CaCO3)**	**Chloride**	**Fluoride**	**Nitrate + Nitrite (as N)**	**Nitrate (as N)**	**Nitrite (as N)**	**Sulfate**	**Sulfide**
	EPA MCL	NS	NS	NS	NS	NS	NS	4	NS	10	1	NS	NS
	Idaho Groundwater Standard	NS	NS	NS	NS	NS	250	4	NS	10	1	250	NS
Groundwater Monitoring Wells													
MW-B-120	10/7/2010	3.5 J	< 5.0	< 5.0	< 5.0	1,360	125	**146**	10.5	**10.5**	< 0.25	**1,350**	< 0.60
	5/16/2011	< 2.5	< 5.0	< 5.0	< 5.0	-	80.3	**135**	13.9	**13.7**	-	**799**	-
	10/18/2011	167	167	204	< 5.0	497	35.8	**22.9**	3.7	3.7	< 0.25	**298**	< 0.30
	5/31/2012	220	220	268	< 5.0	542	30.8	**17.9**	3.5	3.5	< 0.25	**294**	< 0.30
	10/16/2012	225	225	275	< 5.0	527	26.7	**19.2**	3.6	3.6	< 0.10	**276**	< 0.19
	2/15/2013	229	229	279	< 5.0	-	26.4	**16.3**	-	3.2	-	**270**	-
	3/12/2013	233	233	284	< 5.0	515	26.1	**16**	-	3.3	-	**271**	-
	4/4/2013	244	243	296	< 5.0	-	28.6	**23**	-	4.0	-	**282**	-
	5/23/2013	243	243	296	< 5.0	-	27	**19.7**	-	3.1	-	**252**	-
	6/14/2013	241	241	294	< 5.0	-	28.9	**20.5**	-	3.8	-	**272**	-
	7/19/2013	212	212	259	< 5.0	-	26.6	**20.9**	-	3.2	-	**268**	-
	8/29/2013	248	247	301	< 5.0	-	28.7	**19.5**	-	3.4	-	**275**	-
Nu-West Production Wells													
NW-09	10/7/2010	256	256	312	< 5.0	907	77.3	**23.1**	25.1	**25.1**	< 0.25	**711**	< 0.60
	5/16/2011	210	210	256	< 5.0	-	44.9	**8.2**	8	7.9	-	**454**	-
	10/17/2011	258	258	315	< 5.0	687	59.2	**8.5**	11.2	**11.2**	< 0.25	**469**	< 0.30
	6/5/2012	213	213	260	< 5.0	871	81.3	**14.4**	21.7	**21.7**	< 0.25	**677**	1.2
	10/22/2012	255	255	311	< 5.0	919	75.5	**15.4**	21	**21**	< 0.25	**611**	< 0.20
	2/15/2013	257	257	314	< 5.0	-	73	**12.1**	-	**22.2**	-	**565**	-
	3/12/2013	254	254	310	< 5.0	834	73.6	**12.5**	-	**22.2**	-	**566**	-
	4/3/2013	262	262	320	< 5.0	-	79.4	**18.9**	-	**24.7**	-	**581**	-
	5/22/2013	245	245	299	< 5.0	-	85.3	**16.7**	-	**25.2**	-	**570**	-
	6/13/2013	167	167	204	< 5.0	-	63.3	**21.9**	-	**11.9**	-	**406**	-
	7/18/2013	230	230	281	< 5.0	-	91.3	**16.3**	-	**25.2**	-	**597**	-
	8/29/2013	256	256	312	< 5.0	-	89.3	**14.3**	-	**26.2**	-	**595**	-

Table 8

Historical Groundwater Sampling Analytical Results for Metals and General Chemistry Parameters
Nu-West CPO Facility
Soda Springs, Idaho

		General Chemistry				Nitrogen Species (mg/l)			Phosphorus Species (mg/l)			Charge Balance		
Well ID	**Sample Date**	**pH (S.U.)**	**Specific Conductance (µmhos/cm)**	**Total Dissolved Solids**	**Total Suspended Solids**	**Ammonia (as N)**	**Total Nitrogen**	**Total Kjeldahl Nitrogen**	**Ortho-phosphate (as PO4)**	**Total Phosphorus**	**Total Cations (meq/l)**	**Total Anions (meq/l)**	**Charge Balance Error**
EPA MCL		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Idaho Groundwater Standard		6.5 - 8.5	NS	500	NS	NS	NS	NS	NS	NS	NS	NS	NS
Groundwater Monitoring Wells													
MW-B-120	10/7/2010	**5.02**	1,910	**2,400**	18	14.1	21.1	10.6	0.6	7.4	42.53	40.09	2.96%
	5/16/2011	**4.78**	2,070	**1,660**	14	19.1	30.7	16.8	195	194	30.12	33.15	-4.79%
	10/18/2011	**6.35**	1,080	**815**	15	0.9	5.5	1.8	35	3.7	11.96	13.13	-4.66%
	5/31/2012	6.88	1,050	**774**	< 4.0	0.38	4	0.5	49.3	10.8	12.41	14.14	-6.51%
	10/16/2012	6.87	975	**779**	< 4.0	0.31	4.1	0.5	J 0.9	J 12	12.06	12.29	-0.95%
	2/15/2013	6.91	1,010	**821**	-	-	-	-	1.4	2.5	12.97	12.08	3.57%
	3/12/2013	6.88	1,640	**1,400**	-	-	-	-	1.6	2.2	11.72	12.17	-1.89%
	4/4/2013	7.08	970	**822**	-	-	-	-	1.4	1.5	13.34	13.08	1.01%
	5/23/2013	6.75	923	**920**	-	-	-	-	1.6	1.7	12.86	12.18	2.75%
	6/14/2013	6.80	1,010	**664**	-	-	-	-	2.4	1.1	12.05	12.72	-2.72%
	7/19/2013	7.01	1,120	**1,010**	-	-	-	-	2.5	1.5	12.24	11.98	1.10%
	8/29/2013	6.95	1,090	**715**	-	-	-	-	1.7	0.11	13.01	12.80	0.82%
Nu-West Production Wells													
NW-09	10/7/2010	**6.45**	1,300	106	35	5.7	29.6	4.5	0.078 J	5.1	21.32	25.11	-8.18%
	5/16/2011	6.59	1,360	**1,080**	1,430	0.43	10.2	2.2	5	28.8	15.40	16.07	-2.14%
	10/17/2011	6.62	1,520	**1,120**	26	2	12.9	1.7	8.5	14.4	17.11	18.11	-2.84%
	6/5/2012	6.81	1,720	**1,360**	31	3.2	24.9	3.2	3.2	10.3	20.47	23.13	-6.11%
	10/22/2012	6.83	1,500	**1,350**	26	3.1	25.3	4.3	1.5	1.3	21.59	22.31	-1.63%
	2/15/2013	6.78	1,600	**1,410**	-	-	-	-	2 J	2.5	21.70	21.25	1.05%
	3/12/2013	6.78	1,020	**1,390**	-	-	-	-	1.6	2.3	19.50	21.23	-4.27%
	4/3/2013	6.84	1,750	**1,350**	-	-	-	-	1.9	2.9	22.14	22.40	-0.58%
	5/22/2013	6.97	1,580	**1,420**	-	-	-	-	8	8.4	22.65	22.11	1.21%
	6/13/2013	6.59	1,170	**1,140**	-	-	-	-	8.2	47.7	18.22	15.84	6.99%
	7/18/2013	6.68	1,940	**1,850**	-	-	-	-	8.3	2.7	22.92	22.53	0.87%
	8/29/2013	**5.60**	1,920	**1,470**	-	-	-	-	3.5	7.8	22.57	22.76	-0.42%

a/ mg/L = milligrams per liter; µmhos/cm = micromhos per centimeter; J = analyte was detected at a concentration greater than the method detection limit but less than the reporting limit; NS = no sta
Bold font Indicates a concentration that exceeds one or more evaluation criteria.
b/ Evaluation criteria were taken from the EPA-approved Quality Assurance Project Plan dated June 29, 2010.
c/ National Primary Drinking Water Regulations, Title 40, Part 141, Appendix A, Regulated Contaminants EPA (March 2010).
d/ Idaho Groundwater Quality Rule, Idaho Administrative Code IDAPA 58.01.11, Numerical Ground Water Quality Standards, Primary and Secondary Standards.
e/ Nitrate as N03- was calculated using a conversion factor of 4.43 mg of nitrate per mg of nitrate as N;
Bicarbonate as HCO3- was calculated using a converstion factor of 1.22 mg of bicarbonate per mg of CaCO3.

Enclosure A – Laboratory Analytical Data

Southeast
ACCUTEST LABORATORIES

Reissue #1
07/29/13

Technical Report for

WSP Environment & Energy

Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

36785.01

Accutest Job Number: FA6213

Sampling Date: 07/05/13

Report to:

WSP Environmental & Energy

Tim.huff@wspgroup.com

ATTN: Tim Huff

Total number of pages in report: **66**

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Harry Behzadi, Ph.D.
Laboratory Director

Client Service contact: Andrea Colby 407-425-6700

Certifications: FL (E83510), LA (03051), KS (E-10327), IA (366), IL (200063), NC (573), NJ (FL002), SC (96038001) DoD ELAP (L-A-B L2229), CA (04226CA), TX (T104704404), AK, AR, GA, KY, MA, NV, OK, UT, VA, WA, WI

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July 29, 2013

Mr. Tim Huff
WSP Environment & Energy
205 West Park Street
Jackson, MO 63755

RE: Accutest job FA6213 Reissue

Dear Mr. Huff,

The final report for job number FA6213 been edited to reflect the following corrections. These edits have been incorporated into the revised report.

The OPO4 result has been corrected.

Accutest apologizes for any inconvenience this may have caused. Please feel free to contact us if we can be of further assistance.

Sincerely,

Accutest Laboratories, SE

Florida ♦ 4405 Vineland Road ♦ Suite C-15 ♦ Orlando, FL 32811 ♦ tel: 407 425-6700 ♦ fax: 407 425-0707 ♦ htpp:/www.accutest.com

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Sample Summary

WSP Environment & Energy

Job No: FA6213

Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID
Project No: 36785.01

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA6213-1	07/05/13	10:00	TP	07/06/13	AQ	Ground Water	A-34-022
FA6213-1F	07/05/13	10:00	TP	07/06/13	AQ	Ground Water	A-34-022

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: WSP Environment & Energy **Job No:** FA6213

Site: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda **Report Date** 7/20/2013 9:10:05 PM

1 Sample was collected on 07/05/2013 and was received at Accutest SE on 07/06/2013 properly preserved, at 3.8 Deg. C and intact. This Sample received an Accutest job number of FA6213. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Metals By Method SW846 6010C

Matrix: AQ **Batch ID:** MP25443

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA5977-8FDUP, FA5977-8FMS, FA5977-8FMSD, FA5977-8FPS, FA5977-8FSDL were used as the QC samples for metals.

FA6213-1 for Antimony: Elevated reporting limit(s) due to matrix interference.

FA6213-1 for Arsenic: Elevated reporting limit(s) due to matrix interference.

FA6213-1 for Cadmium: Elevated reporting limit(s) due to matrix interference.

FA6213-1 for Calcium: Elevated reporting limit(s) due to matrix interference.

FA6213-1 for Chromium: Elevated reporting limit(s) due to matrix interference.

FA6213-1 for Magnesium: Elevated reporting limit(s) due to matrix interference.

FA6213-1 for Selenium: Elevated reporting limit(s) due to matrix interference.

Wet Chemistry By Method EPA 120.1

Matrix: AQ **Batch ID:** GN56661

All method blanks for this batch meet method specific criteria.

Sample(s) FA6213-1DUP was used as the QC samples for Specific Conductivity.

The following samples were run outside of holding time for method EPA 120.1: FA6213-1

Wet Chemistry By Method EPA 300/SW846 9056A

Matrix: AQ **Batch ID:** GP22034

All samples were prepped within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA6139-1MS, FA6139-1MSD were used as the QC samples for Chloride, Nitrogen, Nitrate, Sulfate.

FA6213-1 for Chloride: Dilution required due to matrix interference.

FA6213-1 for Nitrogen, Nitrate: Dilution required due to matrix interference.

Matrix: AQ **Batch ID:** GP22097

All samples were prepped within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA6415-1MS, FA6415-1MSD were used as the QC samples for Fluoride.

Matrix Spike Recovery(s) for Fluoride are outside control limits. Spike recovery indicates possible matrix interference. For method performance in a clean matrix, refer to Blank Spike.

Wet Chemistry By Method EPA 365.3

Matrix: AQ **Batch ID:** GP22037

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA6213-1MS, FA6213-1MSD were used as the QC samples for Phosphorus, Total.

Matrix Spike Recovery(s) for Phosphorus, Total are outside control limits. Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

Matrix: AQ **Batch ID:** GP22038

All samples were prepped within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA6213-1FMS, FA6213-1FMSD were used as the QC samples for Phosphate, Ortho.

Wet Chemistry By Method SM 4500H B/SW 9040C

Matrix: AQ **Batch ID:** GN56659

Sample(s) FA6213-1DUP was used as the QC samples for pH.

FA6213-1 for pH: Field analysis required. Received out of hold time and analyzed by request.

Wet Chemistry By Method SM19 2320B

Matrix: AQ **Batch ID:** GN56671

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA6131-1DUP was used as the QC samples for Alkalinity, Total as CaCO3.

Wet Chemistry By Method SM19 2540C

Matrix: AQ **Batch ID:** GN56688

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA6189-5DUP was used as the QC samples for Solids, Total Dissolved.

RPD(s) for Duplicate for Solids, Total Dissolved are outside control limits for sample GN56688-D1. RPD acceptable due to low duplicate and sample concentrations.

Accutest Laboratories Southeast (ALSE) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALSE and as stated on the COC. ALSE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the ALSE Quality Manual except as noted above. This report is to be used in its entirety. ALSE is not responsible for any assumptions of data quality if partial data packages are used

Narrative prepared by:

_____

Lovelie Metzgar, QA Officer (signature on file)

Date: July 20, 2013

Summary of Hits

Job Number: FA6213
Account: WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID
Collected: 07/05/13

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA6213-1	**A-34-022**					
Aluminum		979	1.0	0.075	mg/l	SW846 6010C
Arsenic [a]		0.166	0.050	0.013	mg/l	SW846 6010C
Cadmium [a]		1.53	0.025	0.0025	mg/l	SW846 6010C
Calcium [a]		496	5.0	0.25	mg/l	SW846 6010C
Chromium [a]		1.64	0.050	0.010	mg/l	SW846 6010C
Iron		912	1.5	0.15	mg/l	SW846 6010C
Magnesium [a]		643	25	0.37	mg/l	SW846 6010C
Potassium		270	50	1.0	mg/l	SW846 6010C
Sodium		468	50	2.5	mg/l	SW846 6010C
Chloride [b]		158 J	200	80	mg/l	EPA 300/SW846 9056A
Fluoride		3840	400	120	mg/l	EPA 300/SW846 9056A
Nitrogen, Nitrate [b]		7.6 J	10	5.0	mg/l	EPA 300/SW846 9056A
Phosphorus, Total		1570	500	140	mg/l	EPA 365.3
Solids, Total Dissolved		16900	1000	100	mg/l	SM19 2540C
Specific Conductivity [c]		10100	1.0	1.0	umhos/cm	EPA 120.1
Sulfate		8850	200	60	mg/l	EPA 300/SW846 9056A
pH [d]		2.31			su	SM 4500H B/SW 9040C
FA6213-1F	**A-34-022**					
Phosphate, Ortho		1500	1000	190	mg/l	EPA 365.3

(a) Elevated reporting limit(s) due to matrix interference.
(b) Dilution required due to matrix interference.
(c) Sample analyzed beyond hold time.
(d) Field analysis required. Received out of hold time and analyzed by request.

Southeast ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: A-34-022
Lab Sample ID: FA6213-1
Matrix: AQ - Ground Water
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

Date Sampled: 07/05/13
Date Received: 07/06/13
Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	979	1.0	0.075	mg/l	5	07/08/13	07/09/13	LM	SW846 6010C [1]	SW846 3010A [2]
Antimony [a]	0.065 U	0.090	0.065	mg/l	5	07/08/13	07/09/13	LM	SW846 6010C [1]	SW846 3010A [2]
Arsenic [a]	0.166	0.050	0.013	mg/l	5	07/08/13	07/09/13	LM	SW846 6010C [1]	SW846 3010A [2]
Cadmium [a]	1.53	0.025	0.0025	mg/l	5	07/08/13	07/09/13	LM	SW846 6010C [1]	SW846 3010A [2]
Calcium [a]	496	5.0	0.25	mg/l	5	07/08/13	07/09/13	LM	SW846 6010C [1]	SW846 3010A [2]
Chromium [a]	1.64	0.050	0.010	mg/l	5	07/08/13	07/09/13	LM	SW846 6010C [1]	SW846 3010A [2]
Iron	912	1.5	0.15	mg/l	5	07/08/13	07/09/13	LM	SW846 6010C [1]	SW846 3010A [2]
Magnesium [a]	643	25	0.37	mg/l	5	07/08/13	07/09/13	LM	SW846 6010C [1]	SW846 3010A [2]
Potassium	270	50	1.0	mg/l	5	07/08/13	07/09/13	LM	SW846 6010C [1]	SW846 3010A [2]
Selenium [a]	0.010 U	0.050	0.010	mg/l	5	07/08/13	07/09/13	LM	SW846 6010C [1]	SW846 3010A [2]
Sodium	468	50	2.5	mg/l	5	07/08/13	07/09/13	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10880
(2) Prep QC Batch: MP25443

(a) Elevated reporting limit(s) due to matrix interference.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: A-34-022
Lab Sample ID: FA6213-1
Matrix: AQ - Ground Water
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

Date Sampled: 07/05/13
Date Received: 07/06/13
Percent Solids: n/a

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Alkalinity, Bicarbonate as CaC	5.0 U	5.0	5.0	mg/l	1	07/09/13 09:40	LE	SM18 4500CO2D
Alkalinity, Carbonate	5.0 U	5.0	5.0	mg/l	1	07/09/13 09:40	LE	SM18 4500CO2D
Alkalinity, Total as CaCO3	0.60 U	5.0	0.60	mg/l	1	07/09/13 09:40	LE	SM19 2320B
Chloride [a]	158 J	200	80	mg/l	100	07/06/13 11:57	AA	EPA 300/SW846 9056A
Fluoride	3840	400	120	mg/l	2000	07/17/13 13:14	AA	EPA 300/SW846 9056A
Nitrogen, Nitrate [a]	7.6 J	10	5.0	mg/l	100	07/06/13 11:57	AA	EPA 300/SW846 9056A
Phosphorus, Total	1570	500	140	mg/l	5000	07/09/13 15:30	LE	EPA 365.3
Solids, Total Dissolved	16900	1000	100	mg/l	10	07/09/13 14:00	KC	SM19 2540C
Specific Conductivity [b]	10100	1.0	1.0	umhos/cm	1	07/06/13 10:45	MG	EPA 120.1
Sulfate	8850	200	60	mg/l	100	07/06/13 11:57	AA	EPA 300/SW846 9056A
pH [c]	2.31			su	1	07/06/13 10:30	MG	SM 4500H B/SW 9040C

(a) Dilution required due to matrix interference.
(b) Sample analyzed beyond hold time.
(c) Field analysis required. Received out of hold time and analyzed by request.

RL = Reporting Limit
MDL = Method Detection Limit
U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	A-34-022		
Lab Sample ID:	FA6213-1F	**Date Sampled:**	07/05/13
Matrix:	AQ - Ground Water	**Date Received:**	07/06/13
		Percent Solids:	n/a
Project:	Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Phosphate, Ortho	1500	1000	190	mg/l	10000	07/06/13 11:45	HH	EPA 365.3

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Southeast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

Accutest Laboratories Southeast
Chain of Custody

ACCUTEST LABORATORIES

4405 Vineland Road, Suite C-15 Orlando, Fl 32811
TEL. 407-425-6700 • FAX: 407-425-0707
www.accutest.com

Accutest JOB # FA6213 PAGE 1 OF 1

Accutest Quote # SKIFF#

Client / Reporting Information

Company Name: WSP ENV + ENG
Address: 205 W. Park St.
City: JACKSON State: MO Zip: 63755
Project Contact: JIM HUFF E-mail: Jim.Huff@WSPgroup.com
Phone#: 571-217-6759
Sampler(s) Name(s) (Printed): Tyson Patrie

Project Information

Project Name: AGRIUM
Street:
City: State:
Project #:
Fax #:
Client Purchase Order #:

Analytical Information

SEE ATTACHED

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL - Sludge
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe

Accutest Sample #	Field ID / Point of Collection	COLLECTION DATE	TIME	SAMPLED BY:	MATRIX	TOTAL # OF BOTTLES	CONTAINER INFORMATION OTHER	NONE	HCl	NaOH	H2SO4	MeOH/DI/AC	DI WATER	MeOH	LAB USE ONLY
1	A-34-022	07/05/13	1000	TPP	GW	4		X		X	X			X	

TURNAROUND TIME (Business Days)

Approved By: / Rush Code

- [X] 10 Days Standard
- [ ] 7 Day RUSH
- [ ] 5 Day RUSH
- [ ] 3 Day EMERGENCY
- [ ] 2 Day EMERGENCY
- [ ] 1 Day EMERGENCY
- [ ] OTHER

Emergency or Rush T/A Data Available VIA Email or Lablink

Data Deliverable Information

- [ ] COMMERCIAL "A" (RESULTS ONLY)
- [ ] COMMERCIAL "B" (RESULTS PLUS QC)
- [ ] REDT1 (EPA LEVEL 3)
- [ ] FULT1 (EPA LEVEL 4)
- [ ] EDD'S

Comments / Remarks

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler: 1 Tyson Patrie	Date Time: 070513 1125	Received By: 2 FX	Relinquished by: 3 FX	Date Time: 07/06/13 0900	Received By: FAAL Torres ALSE 07/6/13 0900
Relinquished by: 5	Date Time:	Received By: 6	Relinquished by: 7	Date Time:	Received By: 8

Lab Use Only: Custody Seal in Place: Y N Temp Blank Provided: Y N Preserved where Applicable: Y N Total # of Coolers: Cooler Temperature (s) Celsius: 3.8

5.1 5

FA6213: Chain of Custody
Page 1 of 3

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: FA 6213 CLIENT: WSP PROJECT: AGrium

DATE/TIME RECEIVED: 07/06/13 0900 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 1

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 8019 3246 9268

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET
- [ ] WET ICE PRESENT

TRIP BLANK INFORMATION

- [ ] TRIP BLANK PROVIDED
- [x] TRIP BLANK NOT PROVIDED
- [x] TRIP BLANK NOT ON COC
- [ ] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [ ] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM_____ 5-GRAM_____

NUMBER OF 5035 FIELD KITS ? _____

NUMBER OF LAB FILTERED METALS ? _____

TEMPERATURE INFORMATION

- [ ] IR THERM ID 3 CORR. FACTOR +.04
- [ ] OBSERVED TEMPS: 3.4
- [ ] CORRECTED TEMPS: 3.8

SAMPLE INFORMATION

- [ ] SAMPLE LABELS PRESENT ON ALL BOTTLES
- [ ] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] 5035 FIELD KIT FROZEN WITHIN 48 HOUR'S
- [ ] RESIDUAL CHLORINE PRESENT

{APPICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

SUMMARY OF COMMENTS: _____

TECHNICIAN SIGNATURE/DATE [signature] 07/06/13 REVIEWER SIGNATURE/DATE [signature] 07-06-13

NF 12/10

receipt confirmation 122910.xls

5.1 5

FA6213: Chain of Custody

Page 2 of 3

O-Phos - Field Filtered

Note: A-34-022 High Phosphate

Analyte List #2 (groundwater samples and groundwater sampling equipment blanks)

- total dissolved solids (TDS)
- Total metals - aluminum, antimony, arsenic, cadmium, calcium, chromium, iron, magnesium, potassium, selenium, and sodium
- chloride, fluoride, nitrate as N, and sulfate
- pH
- total phosphorous
- dissolved orthophosphate
- bicarbonate and carbonate alkalinity as CaCO3
- specific conductance

NOTE – If turbidity at the time of sampling is greater than 50 NTU, collect dissolved metals sample and submit to laboratory ON HOLD for the same analyte list as the total metals sample.

FA6213: Chain of Custody
Page 3 of 3

Southeast ACCUTEST LABORATORIES

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Instrument Runlogs
- Initial and Continuing Calibration Blanks
- Initial and Continuing Calibration Checks
- High and Low Check Standards
- Interfering Element Check Standards
- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA6213
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA070813M1.ICP Date Analyzed: 07/08/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10878
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
06:33	MA10878-STD1	1		STDA
06:38	MA10878-STD2	1		STDB
06:41	MA10878-STD3	1		STDC
06:45	MA10878-STD4	1		STDD
06:50	MA10878-HSTD1	1		
06:58	MA10878-ICV1	1		
07:08	MA10878-ICB1	1		
07:12	MA10878-CRIA1	1		
07:20	MA10878-ICSA1	1		
07:27	MA10878-ICSAB1	1		
07:36	MA10878-CCV1	1		
07:43	MA10878-CCB1	1		
07:47	MP25438-MB1	1		
07:52	MP25438-B1	1		
08:33	MA10878-CCV2	1		
08:37	MA10878-CCB2	1		
08:51	ZZZZZZ	1		
08:56	ZZZZZZ	1		
09:00	ZZZZZZ	1		
09:05	ZZZZZZ	1		
09:09	ZZZZZZ	1		
09:13	ZZZZZZ	1		
09:18	ZZZZZZ	1		
09:22	ZZZZZZ	1		
09:26	MA10878-CCV3	1		
09:31	MA10878-CCB3	1		
09:35	ZZZZZZ	1		
09:39	ZZZZZZ	1		
09:44	ZZZZZZ	1		
09:48	ZZZZZZ	1		
09:53	ZZZZZZ	1		
09:57	ZZZZZZ	1		
10:02	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA6213
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA070813M1.ICP Date Analyzed: 07/08/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10878
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
10:06	MA10878-CCV4	1		
10:10	MA10878-CCB4	1		
10:44	MP25443-MB1	1		
10:49	MP25443-B1	1		
10:53	FA5977-8F	1		(sample used for QC only; not part of login FA6213)
10:57	MP25443-D1	1		
11:02	MP25443-SD1	5		
11:06	MP25443-PS1	1		
11:11	MP25443-S1	1		
11:15	MP25443-S2	1		
---------->	Last reportable sample/prep for job FA6213			
11:20	ZZZZZZ	1		
11:24	ZZZZZZ	1		
11:29	MA10878-CCV5	1		
11:33	MA10878-CCB5	1		
11:57	MA10878-CCV6	1		
12:03	MA10878-CCB6	1		
12:07	ZZZZZZ	1		
12:12	ZZZZZZ	1		
12:16	ZZZZZZ	1		
12:21	ZZZZZZ	1		
12:25	ZZZZZZ	1		
12:30	ZZZZZZ	1		
12:34	ZZZZZZ	1		
12:39	ZZZZZZ	1		
12:43	ZZZZZZ	1		
12:48	ZZZZZZ	1		
12:52	MA10878-CCV7	1		
12:57	MA10878-CCB7	1		
13:01	ZZZZZZ	1		
13:06	ZZZZZZ	1		
13:10	ZZZZZZ	1		
13:15	ZZZZZZ	1		
13:24	MP25445-MB1	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA6213
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA070813M1.ICP Date Analyzed: 07/08/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10878
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
13:29	MP25445-B1	1		
13:33	FA6143-3	1		(sample used for QC only; not part of login FA6213)
13:38	MP25445-D1	1		
13:42	MP25445-SD1	5		
13:46	MA10878-CCV8	1		
13:51	MA10878-CCB8	1		
13:55	MP25445-PS1	1		
14:00	MP25445-S1	1		
14:04	MP25445-S2	1		
14:08	ZZZZZZ	1		
14:12	ZZZZZZ	1		
14:17	ZZZZZZ	1		
14:21	ZZZZZZ	1		
14:26	ZZZZZZ	1		
14:30	ZZZZZZ	1		
14:35	ZZZZZZ	1		
14:39	MA10878-CCV9	1		
14:43	MA10878-CCB9	1		
14:48	ZZZZZZ	1		
14:52	ZZZZZZ	1		
14:57	ZZZZZZ	1		
15:01	MA10878-CRIA2	1		
15:06	MA10878-ICSA2	1		
15:10	MA10878-ICSAB2	1		
15:15	MA10878-CCV10	1		
15:19	MA10878-CCB10	1		

----------> Last reportable CCB for job FA6213
Refer to raw data for calibration curve and standards.

INTERNAL STANDARD SUMMARY

Login Number: FA6213
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA070813M1.ICP Date Analyzed: 07/08/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10878
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
06:33	MA10878-STD1	3850	27448	4137	1759
06:38	MA10878-STD2	3797	26792	4143	1628
06:41	MA10878-STD3	3653	25950	4095	1470
06:45	MA10878-STD4	3492	25103	4075	1348
06:50	MA10878-HSTD1	3500	25296	4106	1352
06:58	MA10878-ICV1	3644	25856	4134	1474
07:08	MA10878-ICB1	3823 R	27243 R	4174 R	1743 R
07:12	MA10878-CRIA1	3768	26813	4153	1666
07:20	MA10878-ICSA1	3364	23405	4020	1270
07:27	MA10878-ICSAB1	3345	23352	4015	1245
07:36	MA10878-CCV1	3624	25858	4115	1454
07:43	MA10878-CCB1	3807	27339	4120	1733
07:47	MP25438-MB1	3872	28061	4177	1748
07:52	MP25438-B1	3732	26454	4181	1548
08:33	MA10878-CCV2	3625	25889	4011	1460
08:37	MA10878-CCB2	3804	27340	4061	1733
08:51	ZZZZZZ	4625	32786	5342	1268
08:56	ZZZZZZ	3913	28139	4097	1684
09:00	ZZZZZZ	3905	28096	4093	1689
09:05	ZZZZZZ	3925	28136	4158	1683
09:09	ZZZZZZ	3927	28168	4133	1683
09:13	ZZZZZZ	4119	29186	4489	1543
09:18	ZZZZZZ	4039	28638	4381	1537
09:22	ZZZZZZ	4102	29227	4427	1547
09:26	MA10878-CCV3	3650	26220	3970	1458
09:31	MA10878-CCB3	3827	27608	4044	1730
09:35	ZZZZZZ	3952	28361	4197	1635
09:39	ZZZZZZ	3942	28412	4171	1675
09:44	ZZZZZZ	3943	28356	4191	1668
09:48	ZZZZZZ	3925	28313	4175	1671
09:53	ZZZZZZ	3868	27955	4109	1728
09:57	ZZZZZZ	3356	24217	4113	1096
10:02	ZZZZZZ	3418	24715	4143	1094

INTERNAL STANDARD SUMMARY

Login Number: FA6213
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA070813M1.ICP Date Analyzed: 07/08/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10878
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
10:06	MA10878-CCV4	3643	26307	3941	1451
10:10	MA10878-CCB4	3803	27498	3998	1721
10:44	MP25443-MB1	3816	28205	3976	1718
10:49	MP25443-B1	3673	26723	3968	1507
10:53	FA5977-8F	3754	27539	4007	1630
10:57	MP25443-D1	3759	27454	4009	1631
11:02	MP25443-SD1	3788	27770	3977	1685
11:06	MP25443-PS1	3745	27296	4014	1576
11:11	MP25443-S1	3678	26658	3988	1469
11:15	MP25443-S2	3670	26632	3962	1471
11:20	ZZZZZZ	3738	27497	3992	1606
11:24	ZZZZZZ	3675	26785	3983	1504
11:29	MA10878-CCV5	3591	26188	3903	1411
11:33	MA10878-CCB5	3791	27882	3933	1692
11:57	MA10878-CCV6	3595	26423	3876	1416
12:03	MA10878-CCB6	3782	27830	3935	1692
12:07	ZZZZZZ	3779	27853	4029	1624
12:12	ZZZZZZ	3720	27470	4008	1613
12:16	ZZZZZZ	3813	28140	4058	1678
12:21	ZZZZZZ	3854	28420	4041	1702
12:25	ZZZZZZ	3832	28323	4043	1694
12:30	ZZZZZZ	3806	28024	4044	1663
12:34	ZZZZZZ	3735	27601	4029	1616
12:39	ZZZZZZ	3788	27878	4049	1643
12:43	ZZZZZZ	3739	27432	3997	1610
12:48	ZZZZZZ	3736	27283	3971	1590
12:52	MA10878-CCV7	3596	26118	3890	1415
12:57	MA10878-CCB7	3796	27567	3979	1698
13:01	ZZZZZZ	3691	26703	4028	1566
13:06	ZZZZZZ	3728	26987	4017	1599
13:10	ZZZZZZ	3724	26816	4025	1597
13:15	ZZZZZZ	3723	26937	4079	1604
13:24	MP25445-MB1	3853	27994	4096	1727

INTERNAL STANDARD SUMMARY

Login Number: FA6213
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA070813M1.ICP Date Analyzed: 07/08/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10878
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
13:29	MP25445-B1	3715	26540	4020	1524
13:33	FA6143-3	3774	27118	4054	1638
13:38	MP25445-D1	3768	27104	4057	1643
13:42	MP25445-SD1	3826	27460	4056	1704
13:46	MA10878-CCV8	3622	25942	3981	1433
13:51	MA10878-CCB8	3821	27542	4010	1721
13:55	MP25445-PS1	3754	26886	4043	1582
14:00	MP25445-S1	3697	26278	3995	1498
14:04	MP25445-S2	3693	26273	4009	1495
14:08	ZZZZZZ	3722	26625	4056	1553
14:12	ZZZZZZ	3809	27292	4062	1655
14:17	ZZZZZZ	3780	27084	4031	1648
14:21	ZZZZZZ	3702	26681	4014	1588
14:26	ZZZZZZ	3742	26883	4021	1629
14:30	ZZZZZZ	3708	26666	4027	1596
14:35	ZZZZZZ	3692	26528	4025	1581
14:39	MA10878-CCV9	3617	25904	3938	1441
14:43	MA10878-CCB9	3811	27311	4012	1718
14:48	ZZZZZZ	3715	26785	4028	1624
14:52	ZZZZZZ	3738	26982	4054	1622
14:57	ZZZZZZ	3696	26656	4046	1598
15:01	MA10878-CRIA2	3766	26943	3977	1640
15:06	MA10878-ICSA2	3338	23385	3815	1244
15:10	MA10878-ICSAB2	3328	23398	3862	1231
15:15	MA10878-CCV10	3611	25961	3965	1435
15:19	MA10878-CCB10	3810	27507	4001	1715

R = Reference for ISTD limits. ! = Outside limits.

LEGEND:

Istd#	Parameter	Limits
Istd#1	Yttrium (2243)	60-125 %
Istd#2	Yttrium (3600)	60-125 %
Istd#3	Yttrium (3710)	60-125 %
Istd#4	Indium	60-125 %

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: FA6213
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA070813M1.ICP Date Analyzed: 07/08/13 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA10878 Units: ug/l

Time: / Sample ID:			07:08 ICB1		07:43 CCB1		08:37 CCB2		09:31 CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	15	-6.6	<200	6.0	<200	0.0	<200	-9.8	<200
Antimony	6.0	1.3	-0.40	<6.0	0.30	<6.0	-0.10	<6.0	-0.50	<6.0
Arsenic	10	1.6	-1.1	<10	0.30	<10	-0.90	<10	0.0	<10
Barium	200	1	anr							
Beryllium	4.0	.5	anr							
Cadmium	5.0	.5	0.0	<5.0	0.30	<5.0	0.40	<5.0	0.40	<5.0
Calcium	1000	50	1.5	<1000	6.2	<1000	60.0	<1000	15.7	<1000
Chromium	10	1.8	0.20	<10	0.30	<10	0.10	<10	0.10	<10
Cobalt	50	.5	anr							
Copper	25	1	anr							
Iron	300	29	-2.3	<300	3.1	<300	13.5	<300	5.2	<300
Lead	5.0	1.1	anr							
Magnesium	5000	74	-22	<5000	-11	<5000	0.90	<5000	-17	<5000
Manganese	15	.7	anr							
Molybdenum	50	.6								
Nickel	40	.5	anr							
Potassium	10000	200	-3.6	<10000	5.6	<10000	73.3	<10000	38.9	<10000
Selenium	10	2	-1.7	<10	0.30	<10	-2.5	<10	-0.50	<10
Silver	10	.5	anr							
Sodium	10000	500	1.1	<10000	16.8	<10000	41.6	<10000	24.6	<10000
Strontium	10	.5								
Thallium	10	1.3	anr							
Tin	50	.7								
Titanium	10	.9								
Vanadium	50	.5	anr							
Zinc	20	3	anr							

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: FA6213
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA070813M1.ICP Date Analyzed: 07/08/13 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA10878 Units: ug/l

Time: / Sample ID:			10:10 CCB4		11:33 CCB5		12:03 CCB6		12:57 CCB7	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	15	3.5	<200	-5.0	<200	1.6	<200	1.4	<200
Antimony	6.0	1.3	0.30	<6.0	-0.50	<6.0	0.20	<6.0	0.0	<6.0
Arsenic	10	1.6	0.20	<10	-0.50	<10	1.2	<10	-0.10	<10
Barium	200	1	anr							
Beryllium	4.0	.5	anr							
Cadmium	5.0	.5	0.30	<5.0	0.30	<5.0	0.50	<5.0	0.30	<5.0
Calcium	1000	50	97.2	<1000	22.4	<1000	7.9	<1000	10.3	<1000
Chromium	10	1.8	0.50	<10	0.40	<10	0.30	<10	0.10	<10
Cobalt	50	.5	anr							
Copper	25	1	anr							
Iron	300	29	4.0	<300	9.4	<300	9.2	<300	10.7	<300
Lead	5.0	1.1	anr							
Magnesium	5000	74	12.7	<5000	3.1	<5000	10.4	<5000	22.5	<5000
Manganese	15	.7	anr							
Molybdenum	50	.6								
Nickel	40	.5	anr							
Potassium	10000	200	59.5	<10000	59.7	<10000	56.3	<10000	0.50	<10000
Selenium	10	2	-1.8	<10	-1.0	<10	-0.70	<10	0.10	<10
Silver	10	.5	anr							
Sodium	10000	500	31.6	<10000	26.0	<10000	5.6	<10000	1.9	<10000
Strontium	10	.5								
Thallium	10	1.3	anr							
Tin	50	.7								
Titanium	10	.9								
Vanadium	50	.5	anr							
Zinc	20	3	anr							

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: FA6213
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA070813M1.ICP Date Analyzed: 07/08/13 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA10878 Units: ug/l

Time: / Sample ID:			13:51 CCB8		14:43 CCB9		15:19 CCB10	
Metal	RL	IDL	raw	final	raw	final	raw	final
Aluminum	200	15	6.6	<200	7.1	<200	13.2	<200
Antimony	6.0	1.3	0.60	<6.0	0.80	<6.0	1.0	<6.0
Arsenic	10	1.6	0.0	<10	0.80	<10	0.60	<10
Barium	200	1	anr					
Beryllium	4.0	.5	anr					
Cadmium	5.0	.5	0.20	<5.0	0.30	<5.0	0.30	<5.0
Calcium	1000	50	8.8	<1000	10.8	<1000	16.2	<1000
Chromium	10	1.8	0.30	<10	0.40	<10	0.40	<10
Cobalt	50	.5	anr					
Copper	25	1	anr					
Iron	300	29	9.2	<300	13.7	<300	16.9	<300
Lead	5.0	1.1	anr					
Magnesium	5000	74	1.1	<5000	14.2	<5000	54.2	<5000
Manganese	15	.7	anr					
Molybdenum	50	.6						
Nickel	40	.5	anr					
Potassium	10000	200	45.2	<10000	31.2	<10000	65.1	<10000
Selenium	10	2	-1.6	<10	-1.4	<10	-1.3	<10
Silver	10	.5	anr					
Sodium	10000	500	12.8	<10000	1.8	<10000	-3.6	<10000
Strontium	10	.5						
Thallium	10	1.3	anr					
Tin	50	.7						
Titanium	10	.9						
Vanadium	50	.5	anr					
Zinc	20	3	anr					

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA6213
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA070813M1.ICP Date Analyzed: 07/08/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA10878 Units: ug/l

Time:		06:58			07:36			08:33	
Sample ID:	ICV	ICV1		CCV	CCV1		CCV	CCV2	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	40500	101.3	40000	40300	100.8	40000	40000	100.0
Antimony	2000	1990	99.5	2000	2010	100.5	2000	2020	101.0
Arsenic	2000	1990	99.5	2000	2010	100.5	2000	2020	101.0
Barium	anr								
Beryllium	anr								
Cadmium	2000	2010	100.5	2000	2030	101.5	2000	2050	102.5
Calcium	40000	41600	104.0	40000	40400	101.0	40000	40400	101.0
Chromium	2000	2030	101.5	2000	2020	101.0	2000	2020	101.0
Cobalt	anr								
Copper	anr								
Iron	40000	41600	104.0	40000	41500	103.8	40000	40500	101.3
Lead	anr								
Magnesium	40000	39500	98.8	40000	40100	100.3	40000	39400	98.5
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium	40000	41200	103.0	40000	40100	100.3	40000	41000	102.5
Selenium	2000	2010	100.5	2000	2010	100.5	2000	2030	101.5
Silver	anr								
Sodium	40000	41300	103.3	40000	40000	100.0	40000	40500	101.3
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium	anr								
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA6213
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA070813M1.ICP Date Analyzed: 07/08/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA10878 Units: ug/l

Time:		09:26			10:06			11:29	
Sample ID:	CCV	CCV3		CCV	CCV4		CCV	CCV5	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	40500	101.3	40000	40600	101.5	40000	41200	103.0
Antimony	2000	2010	100.5	2000	2000	100.0	2000	2020	101.0
Arsenic	2000	2010	100.5	2000	2000	100.0	2000	2010	100.5
Barium	anr								
Beryllium	anr								
Cadmium	2000	2030	101.5	2000	2010	100.5	2000	2010	100.5
Calcium	40000	40400	101.0	40000	40500	101.3	40000	41000	102.5
Chromium	2000	1980	99.0	2000	1950	97.5	2000	1910	95.5
Cobalt	anr								
Copper	anr								
Iron	40000	41200	103.0	40000	41400	103.5	40000	42400	106.0
Lead	anr								
Magnesium	40000	39600	99.0	40000	39600	99.0	40000	39600	99.0
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium	40000	41300	103.3	40000	41000	102.5	40000	41400	103.5
Selenium	2000	2010	100.5	2000	1990	99.5	2000	2000	100.0
Silver	anr								
Sodium	40000	40600	101.5	40000	40300	100.8	40000	40600	101.5
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium	anr								
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA6213
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA070813M1.ICP Date Analyzed: 07/08/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA10878 Units: ug/l

Time:		11:57			12:52			13:46	
Sample ID:	CCV	CCV6		CCV	CCV7		CCV	CCV8	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	40000	100.0	40000	40700	101.8	40000	39100	97.8
Antimony	2000	2010	100.5	2000	2020	101.0	2000	2020	101.0
Arsenic	2000	2010	100.5	2000	2030	101.5	2000	2030	101.5
Barium	anr								
Beryllium	anr								
Cadmium	2000	2040	102.0	2000	2060	103.0	2000	2070	103.5
Calcium	40000	40500	101.3	40000	40700	101.8	40000	40000	100.0
Chromium	2000	2020	101.0	2000	2100	105.0	2000	2150	107.5
Cobalt	anr								
Copper	anr								
Iron	40000	41100	102.8	40000	41500	103.8	40000	39700	99.3
Lead	anr								
Magnesium	40000	40300	100.8	40000	41000	102.5	40000	40000	100.0
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium	40000	40000	100.0	40000	40300	100.8	40000	39300	98.3
Selenium	2000	2020	101.0	2000	2030	101.5	2000	2050	102.5
Silver	anr								
Sodium	40000	40000	100.0	40000	40500	101.3	40000	39500	98.8
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium	anr								
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA6213
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA070813M1.ICP Date Analyzed: 07/08/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA10878 Units: ug/l

Time:		14:39			15:15	
Sample ID:	CCV	CCV9		CCV	CCV10	
Metal	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	39200	98.0	40000	39200	98.0
Antimony	2000	2020	101.0	2000	2020	101.0
Arsenic	2000	2030	101.5	2000	2030	101.5
Barium	anr					
Beryllium	anr					
Cadmium	2000	2080	104.0	2000	2070	103.5
Calcium	40000	40100	100.3	40000	40000	100.0
Chromium	2000	2160	108.0	2000	2150	107.5
Cobalt	anr					
Copper	anr					
Iron	40000	39800	99.5	40000	39700	99.3
Lead	anr					
Magnesium	40000	40200	100.5	40000	39900	99.8
Manganese	anr					
Molybdenum						
Nickel	anr					
Potassium	40000	39400	98.5	40000	39400	98.5
Selenium	2000	2050	102.5	2000	2040	102.0
Silver	anr					
Sodium	40000	39700	99.3	40000	39600	99.0
Strontium						
Thallium	anr					
Tin						
Titanium						
Vanadium	anr					
Zinc	anr					

(*) Outside of QC limits
(anr) Analyte not requested

HIGH STANDARD CHECK SUMMARY

Login Number: FA6213
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA070813M1.ICP Date Analyzed: 07/08/13 Methods: SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA10878 Units: ug/l

Time:		06:50	
Sample ID:	HSTD	HSTD1	
Metal	True	Results	% Rec
Aluminum	80000	79100	98.9
Antimony	4000	4000	100.0
Arsenic	4000	4000	100.0
Barium	anr		
Beryllium	anr		
Cadmium	4000	3950	98.8
Calcium	80000	78800	98.5
Chromium	4000	3920	98.0
Cobalt	anr		
Copper	anr		
Iron	80000	78800	98.5
Lead	anr		
Magnesium	80000	78900	98.6
Manganese	anr		
Molybdenum			
Nickel	anr		
Potassium	80000	79500	99.4
Selenium	4000	3990	99.8
Silver	anr		
Sodium	80000	79200	99.0
Strontium			
Thallium	anr		
Tin			
Titanium			
Vanadium	anr		
Zinc	anr		

(*) Outside of QC limits
(anr) Analyte not requested

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: FA6213
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA070813M1.ICP Date Analyzed: 07/08/13 Methods: SW846 6010C
QC Limits: CRI 70-130% CRIA 70-130% Run ID: MA10878 Units: ug/l

Time:			07:12		15:01	
Sample ID:	CRI	CRIA	CRIA1		CRIA2	
Metal	True	True	Results	% Rec	Results	% Rec
Aluminum	400	200	197	98.5	218	109.0
Antimony	10	5.0	5.3	106.0	5.4	108.0
Arsenic	20	10	9.6	96.0	11.0	110.0
Barium	400	200	anr			
Beryllium	10	5.0	anr			
Cadmium	10	5.0	5.2	104.0	5.3	106.0
Calcium	2000	1000	1050	105.0	1050	105.0
Chromium	20	10	10.8	108.0	10.9	109.0
Cobalt	100	50	anr			
Copper	50	25	anr			
Iron	600	300	318	106.0	310	103.3
Lead	10	5.0	anr			
Magnesium	10000	5000	5110	102.2	5100	102.0
Manganese	30	15	anr			
Molybdenum	100	50				
Nickel	80	40	anr			
Potassium	20000	10000	10100	101.0	10000	100.0
Selenium	20	10	9.8	98.0	9.8	98.0
Silver	20	10	anr			
Sodium	20000	10000	10200	102.0	10100	101.0
Strontium	20	10				
Thallium	20	10	anr			
Tin	100	50				
Titanium	20	10				
Vanadium	100	50	anr			
Zinc	40	20	anr			

(*) Outside of QC limits
(anr) Analyte not requested

INTERFERING ELEMENT CHECK STANDARDS SUMMARY
Part 1 - ICSA and ICSAB Standards

Login Number: FA6213
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA070813M1.ICP Date Analyzed: 07/08/13 Methods: SW846 6010C
QC Limits: 80 to 120 % Recovery Run ID: MA10878 Units: ug/l

Time:			07:20		07:27		15:06		15:10	
Sample ID:	ICSA	ICSAB	ICSA1		ICSAB1		ICSA2		ICSAB2	
Metal	True	True	Results	% Rec	Results	% Rec	Results	% Rec	Results	% Rec
Aluminum	500000	500000	503000	100.6	495000	99.0	494000	98.8	482000	96.4
Antimony		1000	-0.80		1020	102.0	2.1		1030	103.0
Arsenic		1000	-0.50		1050	105.0	-1.4		1060	106.0
Barium		500	0.30		520	104.0	0.0		507	101.4
Beryllium		500	-0.20		496	99.2	-0.10		493	98.6
Cadmium		1000	-0.50		919	91.9	0.90		938	93.8
Calcium	500000	500000	466000	93.2	470000	94.0	469000	93.8	463000	92.6
Chromium		500	0.0		478	95.6	-0.40		504	100.8
Cobalt		500	1.4		462	92.4	1.3		455	91.0
Copper		500	-0.10		527	105.4	-1.3		528	105.6
Iron	200000	200000	183000	91.5	194000	97.0	176000	88.0	186000	93.0
Lead		1000	0.0		954	95.4	0.0		950	95.0
Magnesium	500000	500000	481000	96.2	482000	96.4	481000	96.2	478000	95.6
Manganese		500	-0.10		493	98.6	0.0		511	102.2
Molybdenum		1000	0.20		912	91.2	0.30		892	89.2
Nickel		1000	0.90		911	91.1	0.50		919	91.9
Potassium			81.2		43.4		123		80.2	
Selenium		1000	0.0		985	98.5	1.3		1010	101.0
Silver		1000	-0.20		1010	101.0	0.20		1020	102.0
Sodium			112		126		111		102	
Strontium		1000	11.7		991	99.1	11.8		997	99.7
Thallium		1000	-1.0		973	97.3	0.10		962	96.2
Tin		1000	1.8		914	91.4	2.7		913	91.3
Titanium		1000	-4.1		970	97.0	-3.7		997	99.7
Vanadium		500	-0.40		473	94.6	-0.20		488	97.6
Zinc		1000	-2.1		921	92.1	-1.7		932	93.2

(*) Outside of QC limits
(anr) Analyte not requested

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA6213
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA070913M1.ICP Date Analyzed: 07/09/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10880
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
07:57	MA10880-STD1	1		STDA
08:01	MA10880-STD2	1		STDB
08:06	MA10880-STD3	1		STDC
08:09	MA10880-STD4	1		STDD
08:14	MA10880-HSTD1	1		
08:22	MA10880-ICV1	1		
08:28	MA10880-ICB1	1		
08:34	MA10880-CRIA1	1		
08:46	MA10880-ICSA1	1		
08:53	MA10880-ICSAB1	1		
09:00	MA10880-CCV1	1		
09:13	MA10880-CCB1	1		
09:17	MP25446-MB1	1		
09:22	MP25446-B1	1		
09:26	FA6212-1	1		(sample used for QC only; not part of login FA6213)
09:31	MP25446-D1	1		
09:38	MP25446-SD1	5		
09:42	MP25446-PS1	1		
09:46	MP25446-S1	1		
09:51	MP25446-S2	1		
09:56	ZZZZZZ	1		
10:00	ZZZZZZ	1		
10:05	MA10880-CCV2	1		
10:09	MA10880-CCB2	1		
10:13	ZZZZZZ	1		
10:18	ZZZZZZ	1		
10:22	ZZZZZZ	1		
10:27	ZZZZZZ	1		
10:32	ZZZZZZ	1		
10:36	ZZZZZZ	1		
10:41	ZZZZZZ	1		
10:46	ZZZZZZ	1		
10:50	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA6213
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA070913M1.ICP Date Analyzed: 07/09/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10880
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
10:55	ZZZZZZ	1		
10:59	MA10880-CCV3	1		
11:04	MA10880-CCB3	1		
11:08	ZZZZZZ	1		
11:13	ZZZZZZ	1		
11:18	ZZZZZZ	1		
11:22	ZZZZZZ	1		
11:27	ZZZZZZ	1		
11:31	ZZZZZZ	1		
11:36	ZZZZZZ	1		
11:40	ZZZZZZ	5		
11:45	FA5906-10	4		(sample used for QC only; not part of login FA6213)
11:50	MP25439-D1	4		
11:54	MA10880-CCV4	1		
11:58	MA10880-CCB4	1		
12:03	MP25439-S1	4		
12:07	MP25439-S2	4		
12:12	MP25439-PS1	4		
12:16	MP25439-SD1	20		
12:21	FA5904-1	5		(sample used for QC only; not part of login FA6213)
12:25	MP25438-D1	5		
12:30	MP25438-S1	5		
12:34	MP25438-S2	5		
12:39	MP25438-PS1	5		
12:43	MP25438-SD1	25		
12:48	MA10880-CCV5	1		
12:52	MA10880-CCB5	1		
12:56	ZZZZZZ	5		
13:01	ZZZZZZ	5		
13:05	ZZZZZZ	5		
13:10	ZZZZZZ	5		
13:15	FA6213-1	5		
---------->	Last reportable sample/prep for job FA6213			
13:19	MP25448-MB1	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA6213
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA070913M1.ICP Date Analyzed: 07/09/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10880
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
13:23	MP25448-B1	1		
13:28	FA6143-3F	1		(sample used for QC only; not part of login FA6213)
13:32	MP25448-D1	1		
13:37	MP25448-SD1	5		
13:41	MA10880-CCV6	1		
13:45	MA10880-CCB6	1		
13:50	MP25448-PS1	1		
13:54	MP25448-S1	1		
13:59	MP25448-S2	1		
14:03	ZZZZZZ	1		
14:07	ZZZZZZ	1		
14:13	MA10880-CCV7	1		
14:21	MA10880-CCB7	1		
14:25	ZZZZZZ	1		
14:30	ZZZZZZ	1		
14:34	MP25449-MB1	1		
14:39	MP25449-B1	1		
14:43	FA6192-1	1		(sample used for QC only; not part of login FA6213)
14:48	MA10880-CCV8	1		
14:52	MA10880-CCB8	1		
14:56	MP25449-D1	1		
15:01	MP25449-SD1	5		
15:05	MP25449-S1	1		
15:10	MP25449-S2	1		
15:14	ZZZZZZ	1		
15:18	ZZZZZZ	1		
15:23	ZZZZZZ	1		
15:27	ZZZZZZ	1		
15:32	ZZZZZZ	1		
15:36	MP25449-D2	1		
15:41	MA10880-CCV9	1		
15:45	MA10880-CCB9	1		
15:50	MP25449-MB2	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA6213
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA070913M1.ICP Date Analyzed: 07/09/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10880
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
15:54	MP25449-B2	1		
15:59	MP25450-MB1	1		
16:03	MP25450-B1	1		
16:07	FA6204-1	1		(sample used for QC only; not part of login FA6213)
16:12	MP25450-D1	1		
16:17	MP25450-SD1	5		
16:21	MP25450-S1	1		
16:26	MP25450-S2	1		
16:30	ZZZZZZ	1		
16:35	MA10880-CCV10	1		
16:39	MA10880-CCB10	1		
16:43	ZZZZZZ	1		
16:48	MP25450-MB2	1		
16:53	MP25450-B2	1		
16:57	MA10880-CRIA2	1		
17:02	MA10880-ICSA2	1		
17:06	MA10880-ICSAB2	1		
17:11	MA10880-CCV11	1		
17:15	MA10880-CCB11	1		

----------> Last reportable CCB for job FA6213
Refer to raw data for calibration curve and standards.

INTERNAL STANDARD SUMMARY

Login Number: FA6213
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA070913M1.ICP Date Analyzed: 07/09/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10880
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
07:57	MA10880-STD1	1586	17160	4799	939
08:01	MA10880-STD2	1563	16800	4792	872
08:06	MA10880-STD3	1505	16235	4727	787
08:09	MA10880-STD4	1455	15811	4663	728
08:14	MA10880-HSTD1	1461	15893	4684	730
08:22	MA10880-ICV1	1507	16267	4713	785
08:28	MA10880-ICB1	1591 R	17302 R	4794 R	937 R
08:34	MA10880-CRIA1	1574	17075	4824	899
08:46	MA10880-ICSA1	1370	14631	4402	668
08:53	MA10880-ICSAB1	1365	14614	4359	658
09:00	MA10880-CCV1	1506	16346	4678	780
09:13	MA10880-CCB1	1588	17449	4806	932
09:17	MP25446-MB1	1573	17366	4739	927
09:22	MP25446-B1	1530	16542	4650	824
09:26	FA6212-1	2277 !	24528 !	7135 !	737
09:31	MP25446-D1	2247 !	24042 !	7001 !	737
09:38	MP25446-SD1	1774	18975	5366	848
09:42	MP25446-PS1	2258 !	24242 !	7011 !	733
09:46	MP25446-S1	2132 !	22933 !	6712 !	715
09:51	MP25446-S2	3953 !	42823 !	12373 !	706
09:56	ZZZZZZ	2391 !	25480 !	7380 !	739
10:00	ZZZZZZ	2538 !	26850 !	7798 !	762
10:05	MA10880-CCV2	1549	16557	4745	797
10:09	MA10880-CCB2	1622	17389	4840	949
10:13	ZZZZZZ	4817 !	50907 !	14713 !	773
10:18	ZZZZZZ	5477 !	57981 !	16790 !	769
10:22	ZZZZZZ	1992 !	20871	6107 !	730
10:27	ZZZZZZ	2076 !	21741 !	6365 !	746
10:32	ZZZZZZ	2222 !	23255 !	6689 !	808
10:36	ZZZZZZ	2225 !	23471 !	6807 !	793
10:41	ZZZZZZ	2121 !	22385 !	6515 !	766
10:46	ZZZZZZ	1600	17220	5011	805
10:50	ZZZZZZ	1549	16352	4750	783

INTERNAL STANDARD SUMMARY

Login Number: FA6213
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA070913M1.ICP Date Analyzed: 07/09/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10880
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
10:55	ZZZZZZ	1363	14921	4657	583
10:59	MA10880-CCV3	1557	16530	4770	804
11:04	MA10880-CCB3	1634	17408	4823	955
11:08	ZZZZZZ	1425	15175	4651	640
11:13	ZZZZZZ	1524	16189	4747	743
11:18	ZZZZZZ	1452	15312	4717	616
11:22	ZZZZZZ	1600	17195	4745	930
11:27	ZZZZZZ	1601	17246	4765	937
11:31	ZZZZZZ	1861	19926	5928	645
11:36	ZZZZZZ	1387	14840	4627	630
11:40	ZZZZZZ	1472	15769	4685	722
11:45	FA5906-10	1582	16722	4783	879
11:50	MP25439-D1	1572	16634	4761	875
11:54	MA10880-CCV4	1540	16385	4732	795
11:58	MA10880-CCB4	1618	17250	4812	946
12:03	MP25439-S1	1565	16481	4740	851
12:07	MP25439-S2	1555	16384	4732	842
12:12	MP25439-PS1	1565	16572	4793	867
12:16	MP25439-SD1	1600	16990	4805	924
12:21	FA5904-1	1580	16646	5013	695
12:25	MP25438-D1	1638	17303	5165	709
12:30	MP25438-S1	1635	17332	5188	713
12:34	MP25438-S2	1640	17373	5192	704
12:39	MP25438-PS1	1584	16750	5043	685
12:43	MP25438-SD1	1554	16545	4794	812
12:48	MA10880-CCV5	1521	16314	4732	792
12:52	MA10880-CCB5	1604	17231	4799	940
12:56	ZZZZZZ	1616	17131	5133	702
13:01	ZZZZZZ	1657	17563	5244	705
13:05	ZZZZZZ	1650	17476	5254	673
13:10	ZZZZZZ	1606	17152	4999	775
13:15	FA6213-1	1709	18096	5333	739
13:19	MP25448-MB1	1587	17253	4823	935

INTERNAL STANDARD SUMMARY

Login Number: FA6213
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA070913M1.ICP Date Analyzed: 07/09/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10880
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
13:23	MP25448-B1	1534	16393	4772	832
13:28	FA6143-3F	1538	16615	4766	881
13:32	MP25448-D1	1540	16544	4736	877
13:37	MP25448-SD1	1591	16996	4798	927
13:41	MA10880-CCV6	1514	16091	4743	789
13:45	MA10880-CCB6	1590	17085	4844	936
13:50	MP25448-PS1	1535	16445	4799	852
13:54	MP25448-S1	1505	16076	4746	801
13:59	MP25448-S2	1510	16105	4763	808
14:03	ZZZZZZ	1496	16096	4761	821
14:07	ZZZZZZ	1546	16652	4791	884
14:13	MA10880-CCV7	1513	16177	4755	787
14:21	MA10880-CCB7	1591	17085	4814	936
14:25	ZZZZZZ	1537	16577	4801	878
14:30	ZZZZZZ	1505	16229	4754	847
14:34	MP25449-MB1	1577	17135	4875	934
14:39	MP25449-B1	1523	16278	4785	825
14:43	FA6192-1	1454	15631	4674	796
14:48	MA10880-CCV8	1505	16047	4744	789
14:52	MA10880-CCB8	1591	17052	4836	938
14:56	MP25449-D1	1455	15627	4690	798
15:01	MP25449-SD1	1540	16440	4801	883
15:05	MP25449-S1	1454	15471	4649	758
15:10	MP25449-S2	1448	15451	4643	753
15:14	ZZZZZZ	1455	15653	4697	800
15:18	ZZZZZZ	1492	16012	4743	826
15:23	ZZZZZZ	1493	15999	4741	836
15:27	ZZZZZZ	1474	15859	4709	825
15:32	ZZZZZZ	1526	16412	4797	875
15:36	MP25449-D2	1456	15650	4681	801
15:41	MA10880-CCV9	1500	15974	4745	788
15:45	MA10880-CCB9	1585	16883	4829	935
15:50	MP25449-MB2	1575	16988	4869	938

INTERNAL STANDARD SUMMARY

Login Number: FA6213
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA070913M1.ICP Date Analyzed: 07/09/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10880
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
15:54	MP25449-B2	1515	16123	4782	827
15:59	MP25450-MB1	1567	16992	4879	932
16:03	MP25450-B1	1512	16156	4785	827
16:07	FA6204-1	1472	15571	4773	814
16:12	MP25450-D1	1475	15581	4741	811
16:17	MP25450-SD1	1538	16372	4830	885
16:21	MP25450-S1	1463	15541	4755	771
16:26	MP25450-S2	1465	15565	4741	767
16:30	ZZZZZZ	1435	15259	4705	779
16:35	MA10880-CCV10	1493	15866	4767	781
16:39	MA10880-CCB10	1572	16843	4820	928
16:43	ZZZZZZ	1447	15312	4717	786
16:48	MP25450-MB2	1474	15590	4750	812
16:53	MP25450-B2	1469	15566	4713	772
16:57	MA10880-CRIA2	1555	16492	4798	895
17:02	MA10880-ICSA2	1356	14087	4416	667
17:06	MA10880-ICSAB2	1342	14135	4405	657
17:11	MA10880-CCV11	1488	15853	4761	779
17:15	MA10880-CCB11	1572	16764	4813	930

R = Reference for ISTD limits. ! = Outside limits.

LEGEND:

Istd#	Parameter	Limits
Istd#1	Yttrium (2243)	60-125 %
Istd#2	Yttrium (3600)	60-125 %
Istd#3	Yttrium (3710)	60-125 %
Istd#4	Indium	60-125 %

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: FA6213
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA070913M1.ICP Date Analyzed: 07/09/13 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA10880 Units: ug/l

Time: / Sample ID:			08:28 ICB1		09:13 CCB1		10:09 CCB2		11:04 CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	15	11.8	<200	7.3	<200	6.5	<200	6.0	<200
Antimony	6.0	1.3	-0.10	<6.0	-1.0	<6.0	-0.50	<6.0	0.0	<6.0
Arsenic	10	1.6	-0.40	<10	-0.20	<10	0.0	<10	-0.50	<10
Barium	200	1	anr							
Beryllium	4.0	.5								
Cadmium	5.0	.5	0.0	<5.0	0.10	<5.0	0.20	<5.0	0.30	<5.0
Calcium	1000	50	2.1	<1000	4.6	<1000	6.1	<1000	24.4	<1000
Chromium	10	1.8	0.20	<10	-0.10	<10	0.0	<10	0.10	<10
Cobalt	50	.5								
Copper	25	1	anr							
Iron	300	29	-4.1	<300	-3.8	<300	10.8	<300	14.2	<300
Lead	5.0	1.1	anr							
Magnesium	5000	74	-0.80	<5000	-0.50	<5000	8.8	<5000	3.4	<5000
Manganese	15	.7								
Molybdenum	50	.6								
Nickel	40	.5								
Potassium	10000	200	20.2	<10000	-3.9	<10000	21.3	<10000	12.0	<10000
Selenium	10	2	-1.3	<10	-1.1	<10	0.0	<10	-0.40	<10
Silver	10	.5	anr							
Sodium	10000	500	4.1	<10000	-2.3	<10000	-0.20	<10000	-0.60	<10000
Strontium	10	.5								
Thallium	10	1.3								
Tin	50	.7								
Titanium	10	.9								
Vanadium	50	.5								
Zinc	20	3								

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: FA6213
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA070913M1.ICP Date Analyzed: 07/09/13 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA10880 Units: ug/l

Time: / Sample ID:			11:58 CCB4		12:52 CCB5		13:45 CCB6		14:21 CCB7	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	15	5.9	<200	1.2	<200	6.0	<200	2.4	<200
Antimony	6.0	1.3	-0.60	<6.0	-0.70	<6.0	-0.50	<6.0	-0.80	<6.0
Arsenic	10	1.6	-0.70	<10	-0.60	<10	-0.20	<10	-0.40	<10
Barium	200	1	anr							
Beryllium	4.0	.5								
Cadmium	5.0	.5	0.0	<5.0	0.10	<5.0	0.0	<5.0	0.20	<5.0
Calcium	1000	50	10.4	<1000	9.8	<1000	10.5	<1000	10.8	<1000
Chromium	10	1.8	0.20	<10	0.20	<10	0.20	<10	0.20	<10
Cobalt	50	.5								
Copper	25	1	anr							
Iron	300	29	8.9	<300	6.4	<300	10.1	<300	4.1	<300
Lead	5.0	1.1	anr							
Magnesium	5000	74	4.1	<5000	-14	<5000	-18	<5000	-12	<5000
Manganese	15	.7								
Molybdenum	50	.6								
Nickel	40	.5								
Potassium	10000	200	21.7	<10000	17.6	<10000	27.2	<10000	11.4	<10000
Selenium	10	2	0.0	<10	0.0	<10	-1.8	<10	-3.2	<10
Silver	10	.5	anr							
Sodium	10000	500	2.1	<10000	7.5	<10000	4.8	<10000	4.6	<10000
Strontium	10	.5								
Thallium	10	1.3								
Tin	50	.7								
Titanium	10	.9								
Vanadium	50	.5								
Zinc	20	3								

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: FA6213
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA070913M1.ICP Date Analyzed: 07/09/13 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA10880 Units: ug/l

Time: / Sample ID:			14:52 CCB8		15:45 CCB9		16:39 CCB10		17:15 CCB11	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	15	1.5	<200	6.9	<200	5.0	<200	7.8	<200
Antimony	6.0	1.3	0.20	<6.0	0.70	<6.0	0.60	<6.0	0.10	<6.0
Arsenic	10	1.6	-0.50	<10	-1.2	<10	0.40	<10	0.80	<10
Barium	200	1	anr							
Beryllium	4.0	.5								
Cadmium	5.0	.5	0.10	<5.0	0.20	<5.0	0.20	<5.0	0.20	<5.0
Calcium	1000	50	11.3	<1000	10.8	<1000	11.9	<1000	12.9	<1000
Chromium	10	1.8	0.0	<10	-0.10	<10	-0.20	<10	0.40	<10
Cobalt	50	.5								
Copper	25	1	anr							
Iron	300	29	5.0	<300	9.6	<300	9.9	<300	14.2	<300
Lead	5.0	1.1	anr							
Magnesium	5000	74	14.1	<5000	-14	<5000	-5.0	<5000	8.8	<5000
Manganese	15	.7								
Molybdenum	50	.6								
Nickel	40	.5								
Potassium	10000	200	36.1	<10000	31.9	<10000	45.6	<10000	26.6	<10000
Selenium	10	2	-0.10	<10	0.10	<10	-0.20	<10	-2.1	<10
Silver	10	.5	anr							
Sodium	10000	500	1.2	<10000	6.9	<10000	19.4	<10000	19.0	<10000
Strontium	10	.5								
Thallium	10	1.3								
Tin	50	.7								
Titanium	10	.9								
Vanadium	50	.5								
Zinc	20	3								

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA6213
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA070913M1.ICP Date Analyzed: 07/09/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA10880 Units: ug/l

Time:		08:22			09:00			10:05	
Sample ID:	ICV	ICV1		CCV	CCV1		CCV	CCV2	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	40700	101.8	40000	40600	101.5	40000	40300	100.8
Antimony	2000	2030	101.5	2000	2020	101.0	2000	2000	100.0
Arsenic	2000	2030	101.5	2000	2010	100.5	2000	2020	101.0
Barium	anr								
Beryllium									
Cadmium	2000	2050	102.5	2000	2040	102.0	2000	2050	102.5
Calcium	40000	41000	102.5	40000	40400	101.0	40000	41300	103.3
Chromium	2000	2050	102.5	2000	2010	100.5	2000	2080	104.0
Cobalt									
Copper	anr								
Iron	40000	41800	104.5	40000	42000	105.0	40000	42100	105.3
Lead	anr								
Magnesium	40000	40500	101.3	40000	40000	100.0	40000	40400	101.0
Manganese									
Molybdenum									
Nickel									
Potassium	40000	40800	102.0	40000	40300	100.8	40000	39900	99.8
Selenium	2000	2030	101.5	2000	2010	100.5	2000	2000	100.0
Silver	anr								
Sodium	40000	40900	102.3	40000	40400	101.0	40000	39700	99.3
Strontium									
Thallium									
Tin									
Titanium									
Vanadium									
Zinc									

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA6213
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA070913M1.ICP Date Analyzed: 07/09/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA10880 Units: ug/l

Time:		10:59			11:54			12:48	
Sample ID:	CCV	CCV3		CCV	CCV4		CCV	CCV5	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	39600	99.0	40000	39900	99.8	40000	39100	97.8
Antimony	2000	2010	100.5	2000	2010	100.5	2000	2030	101.5
Arsenic	2000	2020	101.0	2000	2030	101.5	2000	2040	102.0
Barium	anr								
Beryllium									
Cadmium	2000	2070	103.5	2000	2070	103.5	2000	2080	104.0
Calcium	40000	41500	103.8	40000	41000	102.5	40000	40800	102.0
Chromium	2000	2100	105.0	2000	2100	105.0	2000	2060	103.0
Cobalt									
Copper	anr								
Iron	40000	41300	103.3	40000	41200	103.0	40000	40500	101.3
Lead	anr								
Magnesium	40000	39900	99.8	40000	39900	99.8	40000	39100	97.8
Manganese									
Molybdenum									
Nickel									
Potassium	40000	39700	99.3	40000	39800	99.5	40000	39600	99.0
Selenium	2000	2020	101.0	2000	2020	101.0	2000	2050	102.5
Silver	anr								
Sodium	40000	39400	98.5	40000	39700	99.3	40000	39400	98.5
Strontium									
Thallium									
Tin									
Titanium									
Vanadium									
Zinc									

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA6213
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA070913M1.ICP Date Analyzed: 07/09/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA10880 Units: ug/l

Time:		13:41			14:13			14:48	
Sample ID:	CCV	CCV6		CCV	CCV7		CCV	CCV8	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	39500	98.8	40000	39200	98.0	40000	39400	98.5
Antimony	2000	2030	101.5	2000	2040	102.0	2000	2040	102.0
Arsenic	2000	2040	102.0	2000	2040	102.0	2000	2050	102.5
Barium	anr								
Beryllium									
Cadmium	2000	2090	104.5	2000	2080	104.0	2000	2100	105.0
Calcium	40000	40800	102.0	40000	40600	101.5	40000	40700	101.8
Chromium	2000	2110	105.5	2000	2080	104.0	2000	2110	105.5
Cobalt									
Copper	anr								
Iron	40000	40700	101.8	40000	40300	100.8	40000	40200	100.5
Lead	anr								
Magnesium	40000	39400	98.5	40000	39100	97.8	40000	39100	97.8
Manganese									
Molybdenum									
Nickel									
Potassium	40000	39700	99.3	40000	39600	99.0	40000	39900	99.8
Selenium	2000	2050	102.5	2000	2050	102.5	2000	2060	103.0
Silver	anr								
Sodium	40000	39600	99.0	40000	39500	98.8	40000	39800	99.5
Strontium									
Thallium									
Tin									
Titanium									
Vanadium									
Zinc									

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA6213
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA070913M1.ICP Date Analyzed: 07/09/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA10880 Units: ug/l

Time:		15:41			16:35			17:11	
Sample ID:	CCV	CCV9		CCV	CCV10		CCV	CCV11	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	39300	98.3	40000	39200	98.0	40000	39200	98.0
Antimony	2000	2060	103.0	2000	2060	103.0	2000	2060	103.0
Arsenic	2000	2060	103.0	2000	2070	103.5	2000	2080	104.0
Barium	anr								
Beryllium									
Cadmium	2000	2110	105.5	2000	2110	105.5	2000	2110	105.5
Calcium	40000	40600	101.5	40000	40300	100.8	40000	40100	100.3
Chromium	2000	2120	106.0	2000	2150	107.5	2000	2130	106.5
Cobalt									
Copper	anr								
Iron	40000	40000	100.0	40000	39600	99.0	40000	39500	98.8
Lead	anr								
Magnesium	40000	39200	98.0	40000	38900	97.3	40000	38900	97.3
Manganese									
Molybdenum									
Nickel									
Potassium	40000	39800	99.5	40000	39900	99.8	40000	40000	100.0
Selenium	2000	2080	104.0	2000	2080	104.0	2000	2090	104.5
Silver	anr								
Sodium	40000	39800	99.5	40000	39800	99.5	40000	39900	99.8
Strontium									
Thallium									
Tin									
Titanium									
Vanadium									
Zinc									

(*) Outside of QC limits
(anr) Analyte not requested

HIGH STANDARD CHECK SUMMARY

Login Number: FA6213
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA070913M1.ICP Date Analyzed: 07/09/13 Methods: SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA10880 Units: ug/l

Time:		08:14	
Sample ID:	HSTD	HSTD1	
Metal	True	Results	% Rec
Aluminum	80000	79700	99.6
Antimony	4000	3990	99.8
Arsenic	4000	4000	100.0
Barium	anr		
Beryllium			
Cadmium	4000	3950	98.8
Calcium	80000	79900	99.9
Chromium	4000	3940	98.5
Cobalt			
Copper	anr		
Iron	80000	79300	99.1
Lead	anr		
Magnesium	80000	80300	100.4
Manganese			
Molybdenum			
Nickel			
Potassium	80000	79900	99.9
Selenium	4000	3980	99.5
Silver	anr		
Sodium	80000	80000	100.0
Strontium			
Thallium			
Tin			
Titanium			
Vanadium			
Zinc			

(*) Outside of QC limits
(anr) Analyte not requested

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: FA6213
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA070913M1.ICP Date Analyzed: 07/09/13 Methods: SW846 6010C
QC Limits: CRI 70-130% CRIA 70-130% Run ID: MA10880 Units: ug/l

Time:			08:34		16:57	
Sample ID:	CRI	CRIA	CRIA1		CRIA2	
Metal	True	True	Results	% Rec	Results	% Rec
Aluminum	400	200	209	104.5	202	101.0
Antimony	10	5.0	5.3	106.0	4.7	94.0
Arsenic	20	10	9.2	92.0	10.9	109.0
Barium	400	200	anr			
Beryllium	10	5.0				
Cadmium	10	5.0	5.2	104.0	5.3	106.0
Calcium	2000	1000	1030	103.0	1040	104.0
Chromium	20	10	10.4	104.0	10.8	108.0
Cobalt	100	50				
Copper	50	25	anr			
Iron	600	300	311	103.7	309	103.0
Lead	10	5.0	anr			
Magnesium	10000	5000	4840	96.8	4780	95.6
Manganese	30	15				
Molybdenum	100	50				
Nickel	80	40				
Potassium	20000	10000	9830	98.3	9900	99.0
Selenium	20	10	9.8	98.0	9.9	99.0
Silver	20	10	anr			
Sodium	20000	10000	9800	98.0	9850	98.5
Strontium	20	10				
Thallium	20	10				
Tin	100	50				
Titanium	20	10				
Vanadium	100	50				
Zinc	40	20				

(*) Outside of QC limits
(anr) Analyte not requested

INTERFERING ELEMENT CHECK STANDARDS SUMMARY
Part 1 - ICSA and ICSAB Standards

Login Number: FA6213
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA070913M1.ICP Date Analyzed: 07/09/13 Methods: SW846 6010C
QC Limits: 80 to 120 % Recovery Run ID: MA10880 Units: ug/l

Time:			08:46		08:53		17:02		17:06	
Sample ID:	ICSA	ICSAB	ICSA1		ICSAB1		ICSA2		ICSAB2	
Metal	True	True	Results	% Rec	Results	% Rec	Results	% Rec	Results	% Rec
Aluminum	500000	500000	529000	105.8	535000	107.0	519000	103.8	513000	102.6
Antimony		1000	0.0		1020	102.0	-3.1		1050	105.0
Arsenic		1000	-0.30		1050	105.0	0.70		1090	109.0
Barium		500	0.0		538	107.6	0.20		535	107.0
Beryllium		500	0.0		519	103.8	-0.10		512	102.4
Cadmium		1000	0.10		919	91.9	1.6		955	95.5
Calcium	500000	500000	505000	101.0	500000	100.0	503000	100.6	499000	99.8
Chromium		500	-0.20		470	94.0	0.0		500	100.0
Cobalt		500	1.1		466	93.2	1.3		468	93.6
Copper		500	0.0		548	109.6	-1.5		556	111.2
Iron	200000	200000	190000	95.0	203000	101.5	181000	90.5	192000	96.0
Lead		1000	-0.10		950	95.0	-1.7		964	96.4
Magnesium	500000	500000	527000	105.4	527000	105.4	516000	103.2	512000	102.4
Manganese		500	0.0		486	97.2	-0.20		507	101.4
Molybdenum		1000	-0.50		929	92.9	-0.20		926	92.6
Nickel		1000	0.0		908	90.8	0.40		932	93.2
Potassium			-5.2		-7.6		43.9		30.8	
Selenium		1000	0.0		987	98.7	-6.7		1020	102.0
Silver		1000	0.10		1020	102.0	0.30		1040	104.0
Sodium			96.2		89.0		120		123	
Strontium		1000	12.1		1040	104.0	12.3		1040	104.0
Thallium		1000	0.60		948	94.8	-4.4		955	95.5
Tin		1000	5.1		922	92.2	4.6		938	93.8
Titanium		1000	-0.90		968	96.8	-1.1		1010	101.0
Vanadium		500	0.10		472	94.4	0.80		488	97.6
Zinc		1000	-2.3		924	92.4	-2.4		954	95.4

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: FA6213
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

QC Batch ID: MP25443
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 07/08/13

Metal	RL	IDL	MDL	MB raw	final
Aluminum	200	15	15	-4.2	<200
Antimony	6.0	1.3	1.3	-1.3	<6.0
Arsenic	10	1.6	2.5	-1.0	<10
Barium	200	1	1		
Beryllium	4.0	.5	.5		
Cadmium	5.0	.5	.5	0.10	<5.0
Calcium	1000	50	50	82.0	<1000
Chromium	10	1.8	2	-0.10	<10
Cobalt	50	.5	.5		
Copper	25	1	1		
Iron	300	29	29	-5.9	<300
Lead	5.0	1.1	1.1		
Magnesium	5000	74	74	-15	<5000
Manganese	15	.7	.7		
Molybdenum	50	.6	1		
Nickel	40	.5	.5		
Potassium	10000	200	200	13.9	<10000
Selenium	10	2	2	-1.8	<10
Silver	10	.5	.5		
Sodium	10000	500	500	12.6	<10000
Strontium	10	.5	.5		
Thallium	10	1.3	1.3		
Tin	50	.7	1.8		
Titanium	10	.9	1		
Vanadium	50	.5	1		
Zinc	20	3	5		

Associated samples MP25443: FA6213-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FA6213
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

QC Batch ID: MP25443
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date:			07/08/13					07/08/13	
Metal	FA5977-8F Original	DUP	RPD	QC Limits	FA5977-8F Original	MS	Spikelot MPFLICP1	% Rec	QC Limits
Aluminum	0.0	0.0	NC	0-20	0.0	29200	27000	108.1	80-120
Antimony	0.0	0.0	NC	0-20	0.0	521	500	104.2	80-120
Arsenic	0.0	0.0	NC	0-20	0.0	2080	2000	104.0	80-120
Barium	anr								
Beryllium	anr								
Cadmium	0.0	0.0	NC	0-20	0.0	51.2	50	102.4	80-120
Calcium	27300	26400	3.4	0-20	27300	52900	25000	102.4	80-120
Chromium	0.0	0.0	NC	0-20	0.0	206	200	103.0	80-120
Cobalt	anr								
Copper	anr								
Iron	864	830	4.0	0-20	864	29700	26000	110.9	80-120
Lead	anr								
Magnesium	8480	8290	2.3	0-20	8480	33900	25000	101.7	80-120
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium	2360	2290	3.0	0-20	2360	29600	25000	109.0	80-120
Selenium	0.0	0.0	NC	0-20	0.0	2050	2000	102.5	80-120
Silver	anr								
Sodium	3100	3010	2.9	0-20	3100	29600	25000	106.0	80-120
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium	anr								
Zinc	anr								

Associated samples MP25443: FA6213-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FA6213
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

QC Batch ID: MP25443
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 07/08/13

Metal	FA5977-8F Original	MSD	Spikelot MPFLICP1	% Rec	MSD RPD	QC Limit
Aluminum	0.0	28400	27000	105.2	2.8	20
Antimony	0.0	505	500	101.0	3.1	20
Arsenic	0.0	2000	2000	100.0	3.9	20
Barium	anr					
Beryllium	anr					
Cadmium	0.0	49.5	50	99.0	3.4	20
Calcium	27300	50900	25000	94.4	3.9	20
Chromium	0.0	197	200	98.5	4.5	20
Cobalt	anr					
Copper	anr					
Iron	864	28900	26000	107.8	2.7	20
Lead	anr					
Magnesium	8480	32500	25000	96.1	4.2	20
Manganese	anr					
Molybdenum						
Nickel	anr					
Potassium	2360	28700	25000	105.4	3.1	20
Selenium	0.0	1980	2000	99.0	3.5	20
Silver	anr					
Sodium	3100	28700	25000	102.4	3.1	20
Strontium						
Thallium	anr					
Tin						
Titanium						
Vanadium	anr					
Zinc	anr					

Associated samples MP25443: FA6213-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: FA6213
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

QC Batch ID: MP25443
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 07/08/13

Metal	BSP Result	Spikelot MPFLICP1	% Rec	QC Limits
Aluminum	29400	27000	108.9	80-120
Antimony	528	500	105.6	80-120
Arsenic	2100	2000	105.0	80-120
Barium	anr			
Beryllium	anr			
Cadmium	52.5	50	105.0	80-120
Calcium	27800	25000	111.2	80-120
Chromium	205	200	102.5	80-120
Cobalt	anr			
Copper	anr			
Iron	29400	26000	113.1	80-120
Lead	anr			
Magnesium	26000	25000	104.0	80-120
Manganese	anr			
Molybdenum				
Nickel	anr			
Potassium	27500	25000	110.0	80-120
Selenium	2080	2000	104.0	80-120
Silver	anr			
Sodium	26900	25000	107.6	80-120
Strontium				
Thallium	anr			
Tin				
Titanium				
Vanadium	anr			
Zinc	anr			

Associated samples MP25443: FA6213-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: FA6213
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

QC Batch ID: MP25443
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 07/08/13

Metal	FA5977-8F Original	SDL 1:5	%DIF	QC Limits
Aluminum	0.00	0.00	NC	0-10
Antimony	0.00	0.00	NC	0-10
Arsenic	0.00	0.00	NC	0-10
Barium	anr			
Beryllium	anr			
Cadmium	0.00	0.00	NC	0-10
Calcium	27300	28300	3.9	0-10
Chromium	0.00	0.00	NC	0-10
Cobalt	anr			
Copper	anr			
Iron	864	863	0.2	0-10
Lead	anr			
Magnesium	8480	8850	4.4	0-10
Manganese	anr			
Molybdenum				
Nickel	anr			
Potassium	2360	2370	0.4	0-10
Selenium	0.00	0.00	NC	0-10
Silver	anr			
Sodium	3100	3150	1.5	0-10
Strontium				
Thallium	anr			
Tin				
Titanium				
Vanadium	anr			
Zinc	anr			

Associated samples MP25443: FA6213-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

POST DIGESTATE SPIKE SUMMARY

Login Number: FA6213
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

QC Batch ID: MP25443
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 07/08/13

Metal	Sample ml	Final ml	FA5977-8F Raw	FA5977-8F Corr.**	PS ug/l	Spike ml	Spike ug/ml	Spike ug/l	% Rec	QC Limits
Aluminum	9.8	10	0	0	2589	0.2	125	2500	103.6	80-120
Antimony	9.8	10	0	0	102.2	0.2	5	100	102.2	80-120
Arsenic	9.8	10	0	0	102	0.2	5	100	102.0	80-120
Barium										
Beryllium										
Cadmium	9.8	10	0	0	52.5	0.2	2.5	50	105.0	80-120
Calcium	9.8	10	27260	26714.8	32620	0.2	250	5000	118.1	80-120
Chromium	9.8	10	0	0	51.8	0.2	2.5	50	103.6	80-120
Cobalt										
Copper										
Iron	9.8	10	864	846.72	4146	0.2	150	3000	110.0	80-120
Lead										
Magnesium	9.8	10	8478	8308.44	13300	0.2	250	5000	99.8	80-120
Manganese										
Molybdenum										
Nickel										
Potassium	9.8	10	2360	2312.8	13010	0.2	500	10000	107.0	80-120
Selenium	9.8	10	0	0	98.1	0.2	5	100	98.1	80-120
Silver										
Sodium	9.8	10	3099	3037.02	13520	0.2	500	10000	104.8	80-120
Strontium										
Thallium										
Tin										
Titanium										
Vanadium										
Zinc										

Associated samples MP25443: FA6213-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(**) Corr. sample result = Raw * (sample volume / final volume)
(anr) Analyte not requested

Southeast ACCUTEST LABORATORIES

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries
- Instrument Runlogs/QC

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: FA6213
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Alkalinity, Total as CaCO3	GN56671	5.0	0.0	mg/l	250	239	95.6	90-113%
Chloride	GP22034/GN56653	2.0	0.0	mg/l	50	52.3	104.6	90-110%
Fluoride	GP22097/GN56814	0.20	0.0	mg/l	2.5	2.62	104.8	90-110%
Nitrogen, Nitrate	GP22034/GN56653	0.10	0.0	mg/l	2.5	2.52	100.8	90-110%
Phosphate, Ortho	GP22038/GN56672	0.10	0.0010	mg/l	0.300	0.28	91.7	83-116%
Phosphorus, Total	GP22037/GN56693	0.10	0.0	mg/l	.300	0.29	95.0	81-118%
Solids, Total Dissolved	GN56688	100	16.0	mg/l				
Specific Conductivity	GN56661	1.0	0.0	umhos/cm				
Sulfate	GP22034/GN56653	2.0	0.0	mg/l	50	49.5	99.0	90-110%

Associated Samples:
Batch GN56661: FA6213-1
Batch GN56671: FA6213-1
Batch GN56688: FA6213-1
Batch GP22034: FA6213-1
Batch GP22037: FA6213-1
Batch GP22038: FA6213-1F
Batch GP22097: FA6213-1
(*) Outside of QC limits

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: FA6213
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Alkalinity, Total as CaCO3	GN56671	FA6131-1	mg/l	89.9	89.4	0.1	0-20%
Solids, Total Dissolved	GN56688	FA6189-5	mg/l	89.0	95.0	6.5(a)	0-5%
Specific Conductivity	GN56661	FA6213-1	umhos/cm	10100	10100	0.1	0-10%
pH	GN56659	FA6213-1	su	2.31	2.31	0.0	0-10%

Associated Samples:
Batch GN56659: FA6213-1
Batch GN56661: FA6213-1
Batch GN56671: FA6213-1
Batch GN56688: FA6213-1
(*) Outside of QC limits
(a) RPD acceptable due to low duplicate and sample concentrations.

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: FA6213
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Chloride	GP22034/GN56653	FA6139-1	mg/l	16.8	50	67.3	101.0	90-110%
Fluoride	GP22097/GN56814	FA6415-1	mg/l	1.2	2.5	4.9	148.0N(a)	90-110%
Nitrogen, Nitrate	GP22034/GN56653	FA6139-1	mg/l	0.050 U	2.5	2.5	100.0	90-110%
Phosphate, Ortho	GP22038/GN56672	FA6213-1F	mg/l	1500	0.300	4900	112.4	83-116%
Phosphorus, Total	GP22037/GN56693	FA6213-1	mg/l	1570	1.5	1450	0.0(b)	81-118%
Sulfate	GP22034/GN56653	FA6139-1	mg/l	0.88	50	49.9	98.0	90-110%

Associated Samples:
Batch GP22034: FA6213-1
Batch GP22037: FA6213-1
Batch GP22038: FA6213-1F
Batch GP22097: FA6213-1
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(a) Spike recovery indicates possible matrix interference.
(b) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

MATRIX SPIKE DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: FA6213
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MSD Result	RPD	QC Limit
Chloride	GP22034/GN56653	FA6139-1	mg/l	16.8	50	67.8	0.7	20%
Fluoride	GP22097/GN56814	FA6415-1	mg/l	1.2	2.5	4.5	8.5	20%
Nitrogen, Nitrate	GP22034/GN56653	FA6139-1	mg/l	0.050 U	2.5	2.5	0.0	20%
Phosphate, Ortho	GP22038/GN56672	FA6213-1F	mg/l	1500	0.300	4880	0.4	26%
Phosphorus, Total	GP22037/GN56693	FA6213-1	mg/l	1570	1.5	1500	3.5	22%
Sulfate	GP22034/GN56653	FA6139-1	mg/l	0.88	50	51.1	2.4	20%

Associated Samples:
Batch GP22034: FA6213-1
Batch GP22037: FA6213-1
Batch GP22038: FA6213-1F
Batch GP22097: FA6213-1
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA6213
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: 313060701.TXT Date Analyzed: 07/06/13 Methods: EPA 300/SW846 9056A
Analyst: AA Run ID: GN56653
Parameters: Chloride,Nitrogen, Nitrate,Sulfate

Time	Sample Description	Dilution Factor	PS Recov	Comments
10:37	GN56653-CCV1	1		
10:53	GP22034-MB1	1		
11:09	GP22034-B1	1		
11:57	FA6213-1	100		
12:13	ZZZZZZ	2		
12:29	ZZZZZZ	5		
13:02	FA6139-1	1		(sample used for QC only; not part of login FA6213)
13:18	ZZZZZZ	10		
13:34	GN56653-CCV2	1		
13:49	GN56653-CCB1	1		
14:05	FA6139-3	1		(sample used for QC only; not part of login FA6213)
14:21	ZZZZZZ	10		
14:37	ZZZZZZ	5		
14:53	ZZZZZZ	25		
15:26	ZZZZZZ	25		
15:42	ZZZZZZ	10		
15:58	ZZZZZZ	5		
16:30	ZZZZZZ	1		
16:46	GN56653-CCV3	1		
17:02	GN56653-CCB2	1		
17:18	ZZZZZZ	1		
17:34	ZZZZZZ	10		
17:49	ZZZZZZ	5		
18:05	ZZZZZZ	25		
18:21	GP22034-S1	1		
18:37	GP22034-S2	1		
18:53	GP22034-S3	1		
19:09	GP22034-S4	1		
19:25	GN56653-CCV4	1		
19:41	GN56653-CCB3	1		
19:57	ZZZZZZ	5		
20:12	ZZZZZZ	5		
20:28	ZZZZZZ	5		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA6213
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: 313060701.TXT Date Analyzed: 07/06/13 Methods: EPA 300/SW846 9056A
Analyst: AA Run ID: GN56653
Parameters: Chloride,Nitrogen, Nitrate,Sulfate

Time	Sample Description	Dilution Factor	PS Recov	Comments
20:44	ZZZZZZ	5		
21:01	ZZZZZZ	5		
21:18	ZZZZZZ	1		
21:34	ZZZZZZ	5		
21:50	FA6008-2	1		(sample used for QC only; not part of login FA6213)
22:06	ZZZZZZ	5		
22:37	GN56653-CCV5	1		
22:53	GN56653-CCB4	1		
23:10	ZZZZZZ	5		
23:26	ZZZZZZ	5		
23:42	GP22031-S3	1		
23:58	GP22031-S4	1		
00:30	GN56653-CCV6	1		
00:46	GN56653-CCB5	1		

Refer to raw data for calibration curve and standards.

Instrument QC Summary
Inorganics Analyses

Login Number: FA6213
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: 313060701.TXT Date Analyzed: 07/06/13 Methods: EPA 300/SW846 9056A
Run ID: GN56653 Units: mg/l

Sample Number	Parameter	Result	RL	IDL/MDL	True Value	% Recov.	QC Limits
GN56653-CCV1	Chloride	52.9	2.0	0.80	50	105.8	90-110
GN56653-CCV1	Nitrogen, Nitrate	2.6	0.10	0.050	2.5	104.0	90-110
GN56653-CCV1	Sulfate	52.7	2.0	0.60	50	105.4	90-110
GN56653-CCV2	Chloride	53.0	2.0	0.80	50	106.0	90-110
GN56653-CCV2	Nitrogen, Nitrate	2.6	0.10	0.050	2.5	104.0	90-110
GN56653-CCV2	Sulfate	51.5	2.0	0.60	50	103.0	90-110
GN56653-CCB1	Chloride	0.80 U	2.0	0.80			
GN56653-CCB1	Nitrogen, Nitrate	0.050 U	0.10	0.050			
GN56653-CCB1	Sulfate	0.60 U	2.0	0.60			
GN56653-CCV3	Chloride	52.9	2.0	0.80	50	105.8	90-110
GN56653-CCV3	Nitrogen, Nitrate	2.6	0.10	0.050	2.5	104.0	90-110
GN56653-CCV3	Sulfate	51.8	2.0	0.60	50	103.6	90-110
GN56653-CCB2	Chloride	0.80 U	2.0	0.80			
GN56653-CCB2	Nitrogen, Nitrate	0.050 U	0.10	0.050			
GN56653-CCB2	Sulfate	0.60 U	2.0	0.60			
GN56653-CCV4	Chloride	53.0	2.0	0.80	50	106.0	90-110
GN56653-CCV4	Nitrogen, Nitrate	2.6	0.10	0.050	2.5	104.0	90-110
GN56653-CCV4	Sulfate	51.2	2.0	0.60	50	102.4	90-110
GN56653-CCB3	Chloride	0.80 U	2.0	0.80			
GN56653-CCB3	Nitrogen, Nitrate	0.050 U	0.10	0.050			
GN56653-CCB3	Sulfate	0.60 U	2.0	0.60			
GN56653-CCV5	Chloride	52.9	2.0	0.80	50	105.8	90-110
GN56653-CCV5	Nitrogen, Nitrate	2.6	0.10	0.050	2.5	104.0	90-110
GN56653-CCV5	Sulfate	52.3	2.0	0.60	50	104.6	90-110
GN56653-CCB4	Chloride	0.80 U	2.0	0.80			
GN56653-CCB4	Nitrogen, Nitrate	0.050 U	0.10	0.050			
GN56653-CCB4	Sulfate	0.60 U	2.0	0.60			
GN56653-CCV6	Chloride	53.2	2.0	0.80	50	106.4	90-110
GN56653-CCV6	Nitrogen, Nitrate	2.6	0.10	0.050	2.5	104.0	90-110
GN56653-CCV6	Sulfate	52.5	2.0	0.60	50	105.0	90-110
GN56653-CCB5	Chloride	0.80 U	2.0	0.80			
GN56653-CCB5	Nitrogen, Nitrate	0.050 U	0.10	0.050			
GN56653-CCB5	Sulfate	0.60 U	2.0	0.60			

(!) Outside of QC limits

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA6213
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: 213170701.TXT Date Analyzed: 07/17/13 Methods: EPA 300/SW846 9056A
Analyst: AA Run ID: GN56814
Parameters: Fluoride

Time	Sample Description	Dilution Factor	PS Recov	Comments
10:32	GN56814-CCV1	1		
10:48	GP22097-MB1	1		
11:05	GP22097-B1	1		
12:41	FA6415-1	1		(sample used for QC only; not part of login FA6213)
12:58	ZZZZZZ	1		
13:14	FA6213-1	2000		
13:48	GP22097-S1	1		
14:05	GP22097-S2	1		
14:22	GN56814-CCV2	1		
14:39	GP22076-MB1	1		
15:39	GP22076-B1	1		
16:03	FA6155-1	1		(sample used for QC only; not part of login FA6213)
16:20	ZZZZZZ	5		
16:37	ZZZZZZ	10		
17:15	GP22076-S1	1		
17:31	GP22076-S2	1		
18:05	GN56814-CCV3	1		
18:21	GN56814-CCB1	1		

Refer to raw data for calibration curve and standards.

Instrument QC Summary
Inorganics Analyses

Login Number: FA6213
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: 213170701.TXT Date Analyzed: 07/17/13 Methods: EPA 300/SW846 9056A
Run ID: GN56814 Units: mg/l

Sample Number	Parameter	Result	RL	IDL/MDL	True Value	% Recov.	QC Limits
GN56814-CCV1	Fluoride	2.5	0.20	0.060	2.5	100.0	90-110
GN56814-CCV2	Fluoride	2.7	0.20	0.060	2.5	108.0	90-110
GN56814-CCV3	Fluoride	2.6	0.20	0.060	2.5	104.0	90-110
GN56814-CCB1	Fluoride	0.060 U	0.20	0.060			

(!) Outside of QC limits

Southeast
ACCUTEST LABORATORIES

07/25/13

Technical Report for

WSP Environment & Energy

Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID 36785.01

Accutest Job Number: FA6347

Sampling Date: 07/11/13

Report to:

WSP Environment & Energy
205 West Park Street
Jackson, MO 63755
tim.huff@wspgroup.com

ATTN: Tim Huff

Total number of pages in report: **68**

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Harry Behzadi, Ph.D.
Laboratory Director

Client Service contact: Andrea Colby 407-425-6700

Certifications: FL (E83510), LA (03051), KS (E-10327), IA (366), IL (200063), NC (573), NJ (FL002), SC (96038001) DoD ELAP (L-A-B L2229), CA (04226CA), TX (T104704404), AK, AR, GA, KY, MA, NV, OK, UT, VA, WA, WI

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Accutest Laboratories

Sample Summary

WSP Environment & Energy

Job No: FA6347

Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID
Project No: 36785.01

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA6347-1	07/11/13	10:00	TP	07/12/13	AQ	Ground Water	A-34-022
FA6347-1F	07/11/13	10:00	TP	07/12/13	AQ	Groundwater Filtered	A-34-022

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: WSP Environment & Energy **Job:** FA6347

Site: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID **Report Date:** 7/25/2013 12:26:40 PM

1 Sample was collected on 07/11/2013 and was received at Accutest SE on 07/12/2013 properly preserved, at 3 Deg. C and intact. The Sample received an Accutest job number of FA6347. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Metals By Method SW846 6010C

Matrix: AQ **Batch ID:** MP25495

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA6347-1DUP, FA6347-1MS, FA6347-1MSD, FA6347-1PS, FA6347-1SDL were used as the QC samples for metals.

Matrix Spike Recovery(s)/Matrix Spike Duplicate Recovery(s) for Aluminum, Cadmium, Calcium, Chromium, Iron, Magnesium, Potassium, Sodium are outside control limits. Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

RPD(s) for Serial Dilution for Arsenic, Aluminum, Cadmium, Calcium, Iron, Magnesium, Potassium, Sodium are outside control limits for sample MP25495-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

MP25495-SD1 for Sodium: Serial dilution indicates possible matrix interference.

MP25495-SD1 for Potassium: Serial dilution indicates possible matrix interference.

MP25495-SD1 for Magnesium: Serial dilution indicates possible matrix interference.

MP25495-SD1 for Iron: Serial dilution indicates possible matrix interference.

MP25495-SD1 for Aluminum: Serial dilution indicates possible matrix interference.

MP25495-SD1 for Calcium: Serial dilution indicates possible matrix interference.

MP25495-SD1 for Cadmium: Serial dilution indicates possible matrix interference.

MP25495-PS1 for Sodium: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP25495-PS1 for Potassium: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP25495-PS1 for Magnesium: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP25495-PS1 for Iron: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP25495-PS1 for Chromium: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP25495-PS1 for Calcium: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP25495-PS1 for Cadmium: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP25495-PS1 for Aluminum: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

FA6347-1 for Selenium: Elevated reporting limit(s) due to matrix interference.

FA6347-1 for Antimony: Elevated reporting limit(s) due to matrix interference.

FA6347-1 for Arsenic: Elevated reporting limit(s) due to matrix interference.

FA6347-1 for Cadmium: Elevated reporting limit(s) due to matrix interference.

FA6347-1 for Calcium: Elevated reporting limit(s) due to matrix interference.
FA6347-1 for Chromium: Elevated reporting limit(s) due to matrix interference.

Wet Chemistry By Method EPA 120.1

Matrix: AQ **Batch ID:** GN56739

All method blanks for this batch meet method specific criteria.

Sample(s) FA6347-1DUP was used as the QC samples for Specific Conductivity.

The following sample was run outside of holding time for method EPA 120.1: FA6347-1. Sample analyzed beyond hold time.

Wet Chemistry By Method EPA 300/SW846 9056A

Matrix: AQ **Batch ID:** GP22071

All samples were prepped within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA6342-3MS, FA6342-3MSD were used as the QC samples for Chloride, Nitrogen, Nitrate, Sulfate.

FA6347-1 for Chloride: Dilution required due to matrix interference.

FA6347-1 for Nitrogen, Nitrate: Dilution required due to matrix interference.

Matrix: AQ **Batch ID:** GP22092

All samples were prepped within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA6289-1MSD, FA6289-1MS were used as the QC samples for Fluoride.

Matrix Spike Recovery(s) for Fluoride are outside control limits. Spike recovery indicates possible matrix interference. For method performance in a clean matrix, refer to Blank Spike.

Wet Chemistry By Method EPA 365.3

Matrix: AQ **Batch ID:** GP22068

All samples were prepped within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA6347-1FMS, FA6347-1FMSD were used as the QC samples for Phosphate, Ortho.

Matrix: AQ **Batch ID:** GP22073

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA6347-1MSD, FA6347-1MS were used as the QC samples for Phosphorus, Total.

Matrix Spike Recovery(s) for Phosphorus, Total are outside control limits. Spike recovery indicates possible matrix interference. For method performance in a clean matrix, refer to Blank Spike.

Wet Chemistry By Method SM 4500H B/SW 9040C

Matrix: AQ **Batch ID:** GN56740

Sample(s) FA6347-1DUP was used as the QC sample for pH.

FA6347-1 for pH: Field analysis required. Received out of hold time and analyzed by request.

Wet Chemistry By Method SM19 2320B

Matrix: AQ **Batch ID:** GN56842

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA6417-1DUP was used as the QC sample for Alkalinity, Total as CaCO3.

Wet Chemistry By Method SM19 2540C

Matrix: AQ **Batch ID:** GN56795

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA6342-5DUP was used as the QC sample for Solids, Total Dissolved.

Accutest Laboratories Southeast (ALSE) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALSE and as stated on the COC. ALSE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the ALSE Quality Manual except as noted above. This report is to be used in its entirety. ALSE is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

_____ Date: July 25, 2013

Kim Benham, Client Services (signature on file)

Summary of Hits

Job Number: FA6347
Account: WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID
Collected: 07/11/13

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA6347-1	**A-34-022**					
Aluminum		731	2.0	0.15	mg/l	SW846 6010C
Arsenic [a]		0.0926 J	0.10	0.025	mg/l	SW846 6010C
Cadmium [a]		1.16	0.050	0.0050	mg/l	SW846 6010C
Calcium [a]		365	10	0.50	mg/l	SW846 6010C
Chromium [a]		1.08	0.10	0.020	mg/l	SW846 6010C
Iron		700	3.0	0.29	mg/l	SW846 6010C
Magnesium		482	50	0.74	mg/l	SW846 6010C
Potassium		186	100	2.0	mg/l	SW846 6010C
Sodium		345	100	5.0	mg/l	SW846 6010C
Chloride [b]		186 J	200	80	mg/l	EPA 300/SW846 9056A
Fluoride		3610	400	120	mg/l	EPA 300/SW846 9056A
Nitrogen, Nitrate [b]		7.6 J	10	5.0	mg/l	EPA 300/SW846 9056A
Phosphorus, Total		1270	500	140	mg/l	EPA 365.3
Solids, Total Dissolved		14300	1000	100	mg/l	SM19 2540C
Specific Conductivity [c]		10600	1.0	1.0	umhos/cm	EPA 120.1
Sulfate		8970	200	60	mg/l	EPA 300/SW846 9056A
pH [d]		2.44			su	SM 4500H B/SW 9040C
FA6347-1F	**A-34-022**					
Phosphate, Ortho		1150	500	95	mg/l	EPA 365.3

(a) Elevated reporting limit(s) due to matrix interference.
(b) Dilution required due to matrix interference.
(c) Sample analyzed beyond hold time.
(d) Field analysis required. Received out of hold time and analyzed by request.

Southeast ACCUTEST LABORATORIES

4

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: A-34-022
Lab Sample ID: FA6347-1
Matrix: AQ - Ground Water
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

Date Sampled: 07/11/13
Date Received: 07/12/13
Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	731	2.0	0.15	mg/l	10	07/17/13	07/18/13	LM	SW846 6010C [1]	SW846 3010A [2]
Antimony [a]	0.013 U	0.060	0.013	mg/l	10	07/17/13	07/18/13	LM	SW846 6010C [1]	SW846 3010A [2]
Arsenic [a]	0.0926 J	0.10	0.025	mg/l	10	07/17/13	07/18/13	LM	SW846 6010C [1]	SW846 3010A [2]
Cadmium [a]	1.16	0.050	0.0050	mg/l	10	07/17/13	07/18/13	LM	SW846 6010C [1]	SW846 3010A [2]
Calcium [a]	365	10	0.50	mg/l	10	07/17/13	07/18/13	LM	SW846 6010C [1]	SW846 3010A [2]
Chromium [a]	1.08	0.10	0.020	mg/l	10	07/17/13	07/18/13	LM	SW846 6010C [1]	SW846 3010A [2]
Iron	700	3.0	0.29	mg/l	10	07/17/13	07/18/13	LM	SW846 6010C [1]	SW846 3010A [2]
Magnesium	482	50	0.74	mg/l	10	07/17/13	07/18/13	LM	SW846 6010C [1]	SW846 3010A [2]
Potassium	186	100	2.0	mg/l	10	07/17/13	07/18/13	LM	SW846 6010C [1]	SW846 3010A [2]
Selenium [a]	0.020 U	0.10	0.020	mg/l	10	07/17/13	07/18/13	LM	SW846 6010C [1]	SW846 3010A [2]
Sodium	345	100	5.0	mg/l	10	07/17/13	07/18/13	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10903
(2) Prep QC Batch: MP25495

(a) Elevated reporting limit(s) due to matrix interference.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: A-34-022
Lab Sample ID: FA6347-1
Matrix: AQ - Ground Water
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

Date Sampled: 07/11/13
Date Received: 07/12/13
Percent Solids: n/a

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Alkalinity, Bicarbonate as CaC	5.0 U	5.0	5.0	mg/l	1	07/19/13 11:00	HH	SM18 4500CO2D
Alkalinity, Carbonate	5.0 U	5.0	5.0	mg/l	1	07/19/13 11:00	HH	SM18 4500CO2D
Alkalinity, Total as CaCO3	0.60 U	5.0	0.60	mg/l	1	07/19/13 11:00	HH	SM19 2320B
Chloride [a]	186 J	200	80	mg/l	100	07/12/13 13:24	AC	EPA 300/SW846 9056A
Fluoride	3610	400	120	mg/l	2000	07/16/13 22:26	AA	EPA 300/SW846 9056A
Nitrogen, Nitrate [a]	7.6 J	10	5.0	mg/l	100	07/12/13 13:24	AC	EPA 300/SW846 9056A
Phosphorus, Total	1270	500	140	mg/l	5000	07/15/13 10:01	LE	EPA 365.3
Solids, Total Dissolved	14300	1000	100	mg/l	10	07/17/13 14:30	KC	SM19 2540C
Specific Conductivity [b]	10600	1.0	1.0	umhos/cm	1	07/12/13 13:55	AA	EPA 120.1
Sulfate	8970	200	60	mg/l	100	07/12/13 13:24	AC	EPA 300/SW846 9056A
pH [c]	2.44			su	1	07/12/13 14:10	HH	SM 4500H B/SW 9040C

(a) Dilution required due to matrix interference.
(b) Sample analyzed beyond hold time.
(c) Field analysis required. Received out of hold time and analyzed by request.

RL = Reporting Limit
MDL = Method Detection Limit
U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	A-34-022		
Lab Sample ID:	FA6347-1F	**Date Sampled:**	07/11/13
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/12/13
		Percent Solids:	n/a
Project:	Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Phosphate, Ortho	1150	500	95	mg/l	5000	07/12/13 12:00	LE	EPA 365.3

RL = Reporting Limit
MDL = Method Detection Limit

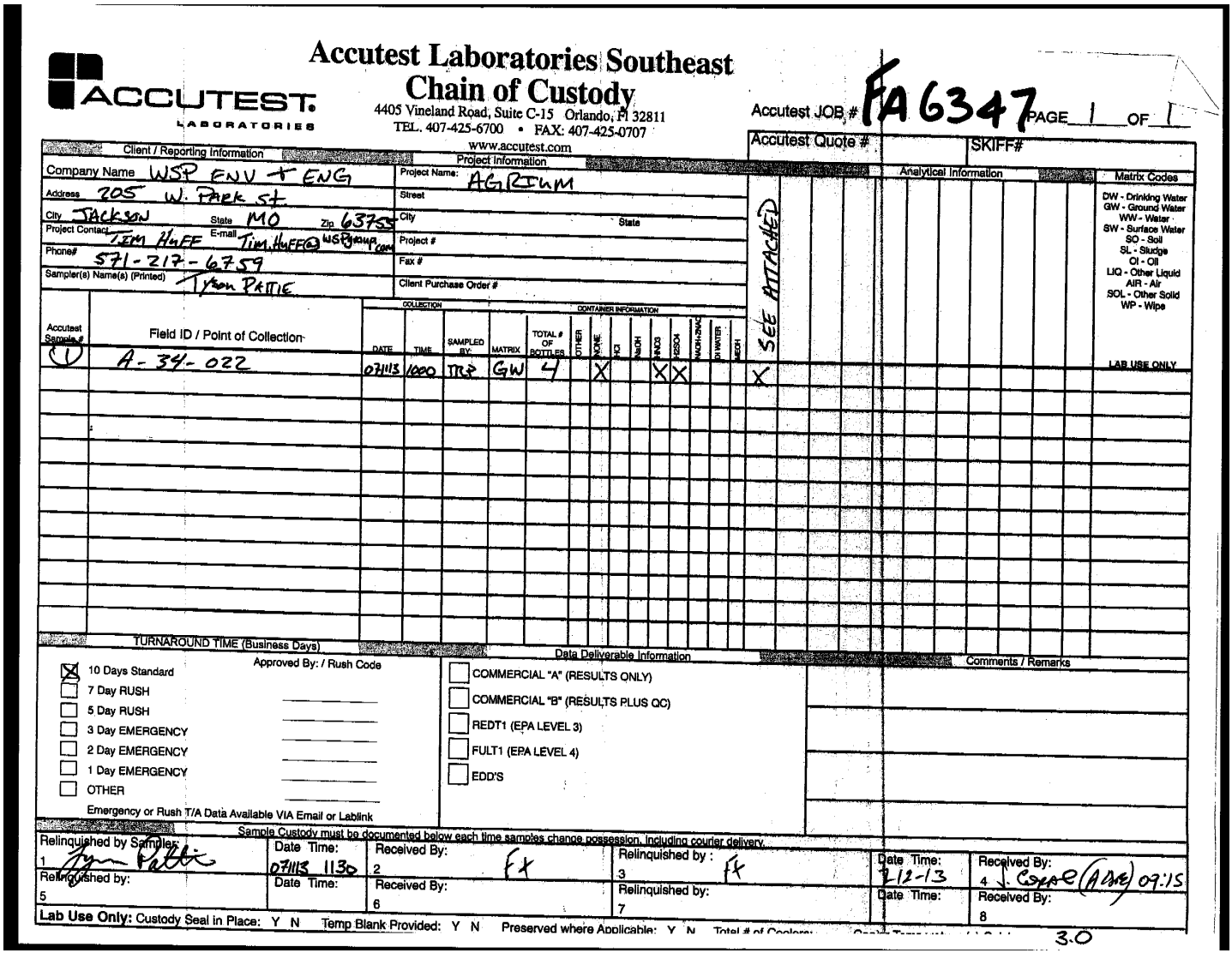
U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody



Accutest Laboratories Southeast
Chain of Custody

ACCUTEST LABORATORIES

4405 Vineland Road, Suite C-15 Orlando, Fl 32811
TEL. 407-425-6700 • FAX: 407-425-0707
www.accutest.com

Accutest JOB # FA6347 PAGE 1 OF 1

Accutest Quote #

SKIFF#

Client / Reporting Information

Company Name: WSP ENV + ENG
Address: 205 W. Park St
City: JACKSON State: MO Zip: 63755
Project Contact: TIM HUFF E-mail: Tim.Huff@wspgroup.com
Phone#: 571-217-6759
Sampler(s) Name(s) (Printed): Tyson Pattie

Project Information

Project Name: AGRIUM
Street
City State
Project #
Fax #
Client Purchase Order #

Analytical Information

SEE ATTACHED

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL - Sludge
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe

Accutest Sample #	Field ID / Point of Collection	DATE	TIME	SAMPLED BY	MATRIX	TOTAL # OF BOTTLES	OTHER	NONE	HCl	NaOH	HNO3	H2SO4	NaOH+ZnAc	DI WATER	MEOH	SEE ATTACHED	LAB USE ONLY
1	A-34-022	07/11/13	1000	TRP	GW	4		X			X	X				X	

TURNAROUND TIME (Business Days)

Approved By: / Rush Code

- [x] 10 Days Standard
- [ ] 7 Day RUSH
- [ ] 5 Day RUSH
- [ ] 3 Day EMERGENCY
- [ ] 2 Day EMERGENCY
- [ ] 1 Day EMERGENCY
- [ ] OTHER

Emergency or Rush T/A Data Available VIA Email or Lablink

Data Deliverable Information

- [ ] COMMERCIAL "A" (RESULTS ONLY)
- [ ] COMMERCIAL "B" (RESULTS PLUS QC)
- [ ] REDT1 (EPA LEVEL 3)
- [ ] FULT1 (EPA LEVEL 4)
- [ ] EDD'S

Comments / Remarks

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished by:	Date Time:	Received By:
1 Tyson Pattie	07/11/13 1130	2 FX	3 FX	7-12-13	4 J. Corral (ADAE) 09:15
Relinquished by: 5	Date Time:	Received By: 6	Relinquished by: 7	Date Time:	Received By: 8

Lab Use Only: Custody Seal in Place: Y N Temp Blank Provided: Y N Preserved where Applicable: Y N Total # of Coolers: 3.0

5.1

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O-Phos - Field Filtered

Note: A-34-022 High Phosphate

Analyte List #2 (groundwater samples and groundwater sampling equipment blanks)

- total dissolved solids (TDS)
- Total metals - aluminum, antimony, arsenic, cadmium, calcium, chromium, iron, magnesium, potassium, selenium, and sodium
- chloride, fluoride, nitrate as N, and sulfate
- pH
- total phosphorous
- dissolved orthophosphate
- bicarbonate and carbonate alkalinity as CaCO3
- specific conductance

NOTE – If turbidity at the time of sampling is greater than 50 NTU, collect dissolved metals sample and submit to laboratory ON HOLD for the same analyte list as the total metals sample.

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ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: FA 6347 CLIENT: WSP PROJECT: AGAIUM

DATE/TIME RECEIVED: 7-12-13 09:15 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 1

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 8017 3246 9279

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET
- [ ] WET ICE PRESENT

TRIP BLANK INFORMATION

- [ ] TRIP BLANK PROVIDED
- [X] TRIP BLANK NOT PROVIDED
- [X] TRIP BLANK NOT ON COC
- [ ] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [ ] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM_____ 5-GRAM_____

NUMBER OF 5035 FIELD KITS ? _____

NUMBER OF LAB FILTERED METALS ? _____

TEMPERATURE INFORMATION

- [ ] IR THERM ID 3 CORR. FACTOR +0.4
- [ ] OBSERVED TEMPS: 2.6
- [ ] CORRECTED TEMPS: 3.0

SAMPLE INFORMATION

- [ ] SAMPLE LABELS PRESENT ON ALL BOTTLES
- [ ] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] 5035 FIELD KIT FROZEN WITHIN 48 HOUR'S
- [ ] RESIDUAL CHLORINE PRESENT

{APPICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

SUMMARY OF COMMENTS: _____

TECHNICIAN SIGNATURE/DATE: 7-12-13 REVIEWER SIGNATURE/DATE: 07.12.13

NF 12/10 receipt confirmation 122910.xls

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Southeast ACCUTEST LABORATORIES

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Instrument Runlogs
- Initial and Continuing Calibration Blanks
- Initial and Continuing Calibration Checks
- High and Low Check Standards
- Interfering Element Check Standards
- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA6347
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA071713M1.ICP Date Analyzed: 07/17/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10898
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
08:03	MA10898-STD1	1		STDA
08:07	MA10898-STD2	1		STDB
08:11	MA10898-STD3	1		STDC
08:14	MA10898-STD4	1		STDD
08:19	MA10898-HSTD1	1		
08:24	MA10898-ICV1	1		
08:33	MA10898-ICB1	1		
08:37	MA10898-CRIA1	1		
08:45	MA10898-ICSA1	1		
08:53	MA10898-ICSAB1	1		
09:00	MA10898-CCV1	1		
09:09	MA10898-CCB1	1		
09:13	MP25487-MB1	1		
09:18	MP25487-B1	1		
09:22	FA6417-1	1		(sample used for QC only; not part of login FA6347)
09:26	MP25487-D1	1		
09:31	MP25487-SD1	5		
09:35	MP25487-PS1	1		
09:40	MP25487-S1	1		
09:44	MP25487-S2	1		
09:49	ZZZZZZ	1		
09:53	ZZZZZZ	1		
09:58	MA10898-CCV2	1		
10:02	MA10898-CCB2	1		
10:06	ZZZZZZ	1		
10:11	ZZZZZZ	1		
10:15	ZZZZZZ	1		
10:20	ZZZZZZ	1		
10:24	ZZZZZZ	1		
10:28	ZZZZZZ	1		
10:33	ZZZZZZ	1		
10:37	ZZZZZZ	1		
10:42	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA6347
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA071713M1.ICP Date Analyzed: 07/17/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10898
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
10:46	ZZZZZZ	1		
10:50	MA10898-CCV3	1		
10:54	MA10898-CCB3	1		
10:59	ZZZZZZ	1		
11:03	ZZZZZZ	1		
11:08	ZZZZZZ	1		
11:12	ZZZZZZ	1		
11:17	ZZZZZZ	1		
11:21	ZZZZZZ	1		
11:26	ZZZZZZ	1		
11:30	ZZZZZZ	5		
11:35	ZZZZZZ	5		
11:44	MA10898-CCV4	1		
11:48	MA10898-CCB4	1		
12:37	MA10898-CCV5	1		
12:41	MA10898-CCB5	1		
12:45	MA10898-CCV6	1		
12:50	MA10898-CCB6	1		
13:06	MP25495-MB1	1		
13:10	MP25495-B1	1		
13:44	ZZZZZZ	1		
13:49	ZZZZZZ	1		
13:53	MA10898-CCV7	1		
13:57	MA10898-CCB7	1		
14:02	ZZZZZZ	1		
14:06	ZZZZZZ	1		
14:11	ZZZZZZ	1		
14:15	ZZZZZZ	1		
14:20	ZZZZZZ	1		
14:25	ZZZZZZ	1		
14:29	ZZZZZZ	1		
14:34	ZZZZZZ	1		
14:38	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA6347
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA071713M1.ICP Date Analyzed: 07/17/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10898
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
14:43	ZZZZZZ	1		
14:48	MA10898-CCV8	1		
14:52	MA10898-CCB8	1		
14:56	ZZZZZZ	1		
15:01	ZZZZZZ	1		
15:06	ZZZZZZ	1		
15:10	ZZZZZZ	1		
15:15	ZZZZZZ	1		
15:20	ZZZZZZ	1		
15:25	ZZZZZZ	1		
15:30	MP25495-MB2A	1		
---------->	Last reportable sample/prep for job FA6347			
15:34	MP25496-MB1	1		
15:39	MP25496-B1	1		
15:43	MA10898-CCV9	1		
15:47	MA10898-CCB9	1		
15:52	FA6459-1	1		(sample used for QC only; not part of login FA6347)
15:56	MP25496-D1	1		
16:00	MP25496-SD1	5		
16:05	MP25496-PS1	1		
16:09	MP25496-S1	1		
16:13	MP25496-S2	1		
16:18	ZZZZZZ	1		
16:22	ZZZZZZ	1		
16:26	MA10898-CRIA2	1		
16:31	MA10898-ICSA2	1		
16:35	MA10898-CCV10	1		
16:40	MA10898-CCB10	1		
16:44	MA10898-ICSAB2	1		
16:49	MA10898-CCV11	1		
16:53	MA10898-CCB11	1		
---------->	Last reportable CCB for job FA6347			

Refer to raw data for calibration curve and standards.

INTERNAL STANDARD SUMMARY

Login Number: FA6347
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA071713M1.ICP Date Analyzed: 07/17/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10898
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
08:03	MA10898-STD1	4654	33620	5107	2056
08:07	MA10898-STD2	4595	32928	5061	1904
08:11	MA10898-STD3	4456	31968	5070	1737
08:14	MA10898-STD4	4266	30962	5032	1594
08:19	MA10898-HSTD1	4300	31289	5000	1600
08:24	MA10898-ICV1	4455	32045	5046	1732
08:33	MA10898-ICB1	4636 R	33686 R	5037 R	2036 R
08:37	MA10898-CRIA1	4576	32913	5065	1949
08:45	MA10898-ICSA1	4100	28995	4894	1490
08:53	MA10898-ICSAB1	4076	29067	4881	1466
09:00	MA10898-CCV1	4447	32261	4984	1725
09:09	MA10898-CCB1	4618	33865	5020	2036
09:13	MP25487-MB1	4661	34504	5153	2045
09:18	MP25487-B1	4519	32998	5119	1825
09:22	FA6417-1	5191	37753	6122	1547
09:26	MP25487-D1	5154	37496	6116	1553
09:31	MP25487-SD1	4694	34142	5257	1785
09:35	MP25487-PS1	5161	37464	6092	1537
09:40	MP25487-S1	5108	37149	6049	1512
09:44	MP25487-S2	5065	36866	6021	1526
09:49	ZZZZZZ	4368	31947	5004	1765
09:53	ZZZZZZ	3971	29075	4868	1443
09:58	MA10898-CCV2	4402	32056	4937	1716
10:02	MA10898-CCB2	4604	33771	4970	2028
10:06	ZZZZZZ	4548	33207	5158	1711
10:11	ZZZZZZ	4439	32786	5038	1873
10:15	ZZZZZZ	4439	32573	4988	1872
10:20	ZZZZZZ	4226	30795	4969	1695
10:24	ZZZZZZ	4174	30250	4916	1689
10:28	ZZZZZZ	4197	30617	4927	1673
10:33	ZZZZZZ	4376	32199	5035	1830
10:37	ZZZZZZ	4280	31549	4954	1791
10:42	ZZZZZZ	4177	30369	4964	1656

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File ID: SA071713M1.ICP Date Analyzed: 07/17/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10898
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
10:46	ZZZZZZ	4468	32947	5032	1851
10:50	MA10898-CCV3	4401	32230	4990	1708
10:54	MA10898-CCB3	4603	33979	4988	2021
10:59	ZZZZZZ	4360	32153	4958	1775
11:03	ZZZZZZ	4664	34677	5113	1964
11:08	ZZZZZZ	4600	34140	5078	1952
11:12	ZZZZZZ	4553	33508	5038	1899
11:17	ZZZZZZ	4646	34356	5111	1947
11:21	ZZZZZZ	4607	34067	5085	1961
11:26	ZZZZZZ	4426	32324	4991	1815
11:30	ZZZZZZ	4303	31552	4916	1676
11:35	ZZZZZZ	4341	31915	4932	1720
11:44	MA10898-CCV4	4372	32141	4899	1695
11:48	MA10898-CCB4	4575	33796	4971	2005
12:37	MA10898-CCV5	4398	32408	5015	1696
12:41	MA10898-CCB5	4638	34589	5109	2023
12:45	MA10898-CCV6	4406	32551	5021	1701
12:50	MA10898-CCB6	4622	34422	5031	2012
13:06	MP25495-MB1	4639	34716	5003	2020
13:10	MP25495-B1	4501	33187	5025	1802
13:44	ZZZZZZ	4628	34588	5002	1972
13:49	ZZZZZZ	4268	31742	4884	1714
13:53	MA10898-CCV7	4413	32723	4855	1700
13:57	MA10898-CCB7	4631	34434	4908	2019
14:02	ZZZZZZ	4342	32291	4885	1766
14:06	ZZZZZZ	3808	28399	4618	1451
14:11	ZZZZZZ	4326	32145	4838	1744
14:15	ZZZZZZ	4270	31702	4832	1722
14:20	ZZZZZZ	4249	31785	4834	1737
14:25	ZZZZZZ	4640	34742	4986	2015
14:29	ZZZZZZ	3822	28493	4654	1454
14:34	ZZZZZZ	4095	30269	4832	1604
14:38	ZZZZZZ	4293	31012	4837	1691

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Analyst: LM Run ID: MA10898
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
14:43	ZZZZZZ	3944	28771	4682	1512
14:48	MA10898-CCV8	4415	32554	4817	1703
14:52	MA10898-CCB8	4624	34079	4799	2015
14:56	ZZZZZZ	4275	31541	4862	1734
15:01	ZZZZZZ	3897	28897	4672	1526
15:06	ZZZZZZ	3933	28645	4662	1508
15:10	ZZZZZZ	3894	28246	4620	1474
15:15	ZZZZZZ	4054	28927	4702	1966
15:20	ZZZZZZ	4352	31883	4804	1765
15:25	ZZZZZZ	3901	28201	4624	1482
15:30	MP25495-MB2A	4633	34186	4917	2032
15:34	MP25496-MB1	4614	33374	4872	2060
15:39	MP25496-B1	4522	32364	4817	1812
15:43	MA10898-CCV9	4387	31591	4737	1703
15:47	MA10898-CCB9	4580	33217	4793	2014
15:52	FA6459-1	4364	32224	5025	1960
15:56	MP25496-D1	4345	32117	5039	1957
16:00	MP25496-SD1	4469	33092	4979	1980
16:05	MP25496-PS1	4389	32348	5032	1934
16:09	MP25496-S1	4363	31946	5009	1834
16:13	MP25496-S2	4377	31959	5030	1838
16:18	ZZZZZZ	4339	31871	4990	1968
16:22	ZZZZZZ	4290	31523	4984	1927
16:26	MA10898-CRIA2	4482	32431	4844	1935
16:31	MA10898-ICSA2	4040	28312	4638	1471
16:35	MA10898-CCV10	4388	31272	4747	1718
16:40	MA10898-CCB10	4597	33158	4795	2024
16:44	MA10898-ICSAB2	4011	27955	4588	1449
16:49	MA10898-CCV11	4388	31190	4708	1719
16:53	MA10898-CCB11	4607	32888	4781	2032

R = Reference for ISTD limits. ! = Outside limits.

LEGEND:

Istd#	Parameter	Limits
Istd#1	Yttrium (2243)	60-125 %
Istd#2	Yttrium (3600)	60-125 %
Istd#3	Yttrium (3710)	60-125 %

INTERNAL STANDARD SUMMARY

Login Number: FA6347
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File ID: SA071713M1.ICP Date Analyzed: 07/17/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10898
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
Istd#4	Indium		60-125 %		

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: FA6347
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA071713M1.ICP Date Analyzed: 07/17/13 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA10898 Units: ug/l

Time:			08:33		09:09		10:02		10:54	
Sample ID:			ICB1		CCB1		CCB2		CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	15	-4.7	<200	20.4	<200	8.9	<200	10.5	<200
Antimony	6.0	1.3	-1.3	<6.0	0.20	<6.0	0.90	<6.0	-0.40	<6.0
Arsenic	10	1.6	-0.10	<10	-0.60	<10	-0.30	<10	0.10	<10
Barium	200	1	anr							
Beryllium	4.0	.5	anr							
Cadmium	5.0	.5	-0.20	<5.0	0.10	<5.0	0.20	<5.0	0.10	<5.0
Calcium	1000	50	-6.1	<1000	8.7	<1000	29.6	<1000	8.4	<1000
Chromium	10	1.8	-0.40	<10	-0.10	<10	0.10	<10	0.10	<10
Cobalt	50	.5	anr							
Copper	25	1	anr							
Iron	300	29	-5.8	<300	6.6	<300	11.9	<300	15.0	<300
Lead	5.0	1.1	anr							
Magnesium	5000	74	-25	<5000	9.4	<5000	4.8	<5000	-30	<5000
Manganese	15	.7	anr							
Molybdenum	50	.6								
Nickel	40	.5	anr							
Potassium	10000	200	52.4	<10000	49.5	<10000	39.6	<10000	268	<10000
Selenium	10	2	0.20	<10	0.90	<10	-1.0	<10	-0.10	<10
Silver	10	.5	anr							
Sodium	10000	500	12.0	<10000	33.1	<10000	83.3	<10000	84.9	<10000
Strontium	10	.5								
Thallium	10	1.3	anr							
Tin	50	.7								
Titanium	10	.9								
Vanadium	50	.5	anr							
Zinc	20	3	anr							

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: FA6347
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA071713M1.ICP Date Analyzed: 07/17/13 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA10898 Units: ug/l

Time: / Sample ID:			11:48 CCB4		12:41 CCB5		12:50 CCB6		13:57 CCB7	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	15	16.3	<200	6.6	<200	10.6	<200	9.9	<200
Antimony	6.0	1.3	0.60	<6.0	0.60	<6.0	0.70	<6.0	-0.20	<6.0
Arsenic	10	1.6	-0.40	<10	0.0	<10	-0.70	<10	0.0	<10
Barium	200	1	anr							
Beryllium	4.0	.5	anr							
Cadmium	5.0	.5	0.10	<5.0	0.0	<5.0	0.10	<5.0	0.10	<5.0
Calcium	1000	50	7.8	<1000	4.3	<1000	8.1	<1000	5.0	<1000
Chromium	10	1.8	0.0	<10	0.0	<10	0.0	<10	-0.10	<10
Cobalt	50	.5	anr							
Copper	25	1	anr							
Iron	300	29	12.9	<300	14.5	<300	18.7	<300	23.3	<300
Lead	5.0	1.1	anr							
Magnesium	5000	74	29.8	<5000	-23	<5000	17.2	<5000	6.6	<5000
Manganese	15	.7	anr							
Molybdenum	50	.6								
Nickel	40	.5	anr							
Potassium	10000	200	104	<10000	164	<10000	124	<10000	232	<10000
Selenium	10	2	0.30	<10	0.0	<10	2.8	<10	0.80	<10
Silver	10	.5	anr							
Sodium	10000	500	57.2	<10000	133	<10000	95.2	<10000	167	<10000
Strontium	10	.5								
Thallium	10	1.3	anr							
Tin	50	.7								
Titanium	10	.9								
Vanadium	50	.5	anr							
Zinc	20	3	anr							

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: FA6347
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA071713M1.ICP Date Analyzed: 07/17/13 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA10898 Units: ug/l

Time: / Sample ID:			14:52 CCB8		15:47 CCB9		16:40 CCB10		16:53 CCB11	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	15	-0.50	<200	7.0	<200	23.8	<200	14.6	<200
Antimony	6.0	1.3	1.0	<6.0	0.40	<6.0	0.80	<6.0	1.3	<6.0
Arsenic	10	1.6	0.30	<10	-0.20	<10	-0.50	<10	-0.20	<10
Barium	200	1	anr							
Beryllium	4.0	.5	anr							
Cadmium	5.0	.5	0.0	<5.0	0.10	<5.0	0.10	<5.0	0.10	<5.0
Calcium	1000	50	17.8	<1000	5.0	<1000	15.9	<1000	16.3	<1000
Chromium	10	1.8	-0.10	<10	0.20	<10	0.10	<10	-0.10	<10
Cobalt	50	.5	anr							
Copper	25	1	anr							
Iron	300	29	14.8	<300	23.5	<300	24.5	<300	23.8	<300
Lead	5.0	1.1	anr							
Magnesium	5000	74	13.5	<5000	19.7	<5000	5.8	<5000	9.4	<5000
Manganese	15	.7	anr							
Molybdenum	50	.6								
Nickel	40	.5	anr							
Potassium	10000	200	105	<10000	59.7	<10000	56.8	<10000	75.7	<10000
Selenium	10	2	-0.30	<10	2.1	<10	-0.30	<10	1.0	<10
Silver	10	.5	anr							
Sodium	10000	500	239	<10000	146	<10000	116	<10000	95.5	<10000
Strontium	10	.5								
Thallium	10	1.3	anr							
Tin	50	.7								
Titanium	10	.9								
Vanadium	50	.5	anr							
Zinc	20	3	anr							

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA6347
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA071713M1.ICP Date Analyzed: 07/17/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA10898 Units: ug/l

Time:		08:24			09:00			09:58	
Sample ID:	ICV	ICV1		CCV	CCV1		CCV	CCV2	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	40000	100.0	40000	40600	101.5	40000	40500	101.3
Antimony	2000	2020	101.0	2000	1990	99.5	2000	2010	100.5
Arsenic	2000	2020	101.0	2000	1990	99.5	2000	2000	100.0
Barium	anr								
Beryllium	anr								
Cadmium	2000	2040	102.0	2000	2010	100.5	2000	2020	101.0
Calcium	40000	40700	101.8	40000	40900	102.3	40000	40900	102.3
Chromium	2000	2030	101.5	2000	2010	100.5	2000	2010	100.5
Cobalt	anr								
Copper	anr								
Iron	40000	41000	102.5	40000	41200	103.0	40000	41000	102.5
Lead	anr								
Magnesium	40000	40200	100.5	40000	40600	101.5	40000	40400	101.0
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium	40000	40200	100.5	40000	40700	101.8	40000	41100	102.8
Selenium	2000	2020	101.0	2000	1990	99.5	2000	2010	100.5
Silver	anr								
Sodium	40000	40200	100.5	40000	40500	101.3	40000	40900	102.3
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium	anr								
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA6347
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA071713M1.ICP Date Analyzed: 07/17/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA10898 Units: ug/l

Time:		10:50			11:44			12:37	
Sample ID:	CCV	CCV3		CCV	CCV4		CCV	CCV5	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	40600	101.5	40000	41000	102.5	40000	40900	102.3
Antimony	2000	2020	101.0	2000	2030	101.5	2000	2040	102.0
Arsenic	2000	2010	100.5	2000	2020	101.0	2000	2020	101.0
Barium	anr								
Beryllium	anr								
Cadmium	2000	2010	100.5	2000	2030	101.5	2000	2010	100.5
Calcium	40000	40800	102.0	40000	41200	103.0	40000	40600	101.5
Chromium	2000	2010	100.5	2000	2020	101.0	2000	2000	100.0
Cobalt	anr								
Copper	anr								
Iron	40000	41100	102.8	40000	41600	104.0	40000	41300	103.3
Lead	anr								
Magnesium	40000	40100	100.3	40000	40700	101.8	40000	39900	99.8
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium	40000	41400	103.5	40000	41400	103.5	40000	41600	104.0
Selenium	2000	2010	100.5	2000	2020	101.0	2000	2020	101.0
Silver	anr								
Sodium	40000	40900	102.3	40000	41100	102.8	40000	41400	103.5
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium	anr								
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA6347
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA071713M1.ICP Date Analyzed: 07/17/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA10898 Units: ug/l

Time:		12:45			13:53			14:48	
Sample ID:	CCV	CCV6		CCV	CCV7		CCV	CCV8	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	40600	101.5	40000	40500	101.3	40000	40100	100.3
Antimony	2000	2030	101.5	2000	2020	101.0	2000	2020	101.0
Arsenic	2000	2010	100.5	2000	2000	100.0	2000	2010	100.5
Barium	anr								
Beryllium	anr								
Cadmium	2000	2000	100.0	2000	2000	100.0	2000	2010	100.5
Calcium	40000	40400	101.0	40000	40700	101.8	40000	40500	101.3
Chromium	2000	1990	99.5	2000	1980	99.0	2000	1990	99.5
Cobalt	anr								
Copper	anr								
Iron	40000	41100	102.8	40000	41300	103.3	40000	40800	102.0
Lead	anr								
Magnesium	40000	39700	99.3	40000	40000	100.0	40000	39700	99.3
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium	40000	41300	103.3	40000	41800	104.5	40000	41500	103.8
Selenium	2000	2020	101.0	2000	2010	100.5	2000	2010	100.5
Silver	anr								
Sodium	40000	41000	102.5	40000	41000	102.5	40000	41200	103.0
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium	anr								
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA6347
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA071713M1.ICP Date Analyzed: 07/17/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA10898 Units: ug/l

Time:		15:43			16:35			16:49	
Sample ID:	CCV	CCV9		CCV	CCV10		CCV	CCV11	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	40100	100.3	40000	39900	99.8	40000	39700	99.3
Antimony	2000	2040	102.0	2000	2050	102.5	2000	2050	102.5
Arsenic	2000	2030	101.5	2000	2040	102.0	2000	2040	102.0
Barium	anr								
Beryllium	anr								
Cadmium	2000	2040	102.0	2000	2060	103.0	2000	2070	103.5
Calcium	40000	40600	101.5	40000	40400	101.0	40000	40400	101.0
Chromium	2000	2020	101.0	2000	2030	101.5	2000	2030	101.5
Cobalt	anr								
Copper	anr								
Iron	40000	40300	100.8	40000	39700	99.3	40000	39500	98.8
Lead	anr								
Magnesium	40000	40000	100.0	40000	39900	99.8	40000	40100	100.3
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium	40000	41700	104.3	40000	41800	104.5	40000	41600	104.0
Selenium	2000	2040	102.0	2000	2060	103.0	2000	2070	103.5
Silver	anr								
Sodium	40000	41200	103.0	40000	41400	103.5	40000	41200	103.0
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium	anr								
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

HIGH STANDARD CHECK SUMMARY

Login Number: FA6347
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA071713M1.ICP Date Analyzed: 07/17/13 Methods: SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA10898 Units: ug/l

Time:		08:19	
Sample ID:	HSTD	HSTD1	
Metal	True	Results	% Rec
Aluminum	80000	78700	98.4
Antimony	4000	3980	99.5
Arsenic	4000	3970	99.3
Barium	anr		
Beryllium	anr		
Cadmium	4000	3930	98.3
Calcium	80000	78400	98.0
Chromium	4000	3930	98.3
Cobalt	anr		
Copper	anr		
Iron	80000	78600	98.3
Lead	anr		
Magnesium	80000	79100	98.9
Manganese	anr		
Molybdenum			
Nickel	anr		
Potassium	80000	79100	98.9
Selenium	4000	3970	99.3
Silver	anr		
Sodium	80000	79100	98.9
Strontium			
Thallium	anr		
Tin			
Titanium			
Vanadium	anr		
Zinc	anr		

(*) Outside of QC limits
(anr) Analyte not requested

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: FA6347
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA071713M1.ICP Date Analyzed: 07/17/13 Methods: SW846 6010C
QC Limits: CRI 70-130% CRIA 70-130% Run ID: MA10898 Units: ug/l

Time:			08:37		16:26	
Sample ID:	CRI	CRIA	CRIA1		CRIA2	
Metal	True	True	Results	% Rec	Results	% Rec
Aluminum	400	200	212	106.0	200	100.0
Antimony	10	5.0	4.9	98.0	6.3	126.0
Arsenic	20	10	10.9	109.0	10.5	105.0
Barium	400	200	anr			
Beryllium	10	5.0	anr			
Cadmium	10	5.0	5.0	100.0	5.1	102.0
Calcium	2000	1000	1040	104.0	1020	102.0
Chromium	20	10	10.2	102.0	9.9	99.0
Cobalt	100	50	anr			
Copper	50	25	anr			
Iron	600	300	308	102.7	331	110.3
Lead	10	5.0	anr			
Magnesium	10000	5000	5010	100.2	4930	98.6
Manganese	30	15	anr			
Molybdenum	100	50				
Nickel	80	40	anr			
Potassium	20000	10000	10000	100.0	10400	104.0
Selenium	20	10	12.4	124.0	12.8	128.0
Silver	20	10	anr			
Sodium	20000	10000	9970	99.7	10400	104.0
Strontium	20	10				
Thallium	20	10	anr			
Tin	100	50				
Titanium	20	10				
Vanadium	100	50	anr			
Zinc	40	20	anr			

(*) Outside of QC limits
(anr) Analyte not requested

INTERFERING ELEMENT CHECK STANDARDS SUMMARY
Part 1 - ICSA and ICSAB Standards

Login Number: FA6347
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA071713M1.ICP Date Analyzed: 07/17/13 Methods: SW846 6010C
QC Limits: 80 to 120 % Recovery Run ID: MA10898 Units: ug/l

Time:			08:45		08:53		16:31		16:44	
Sample ID:	ICSA	ICSAB	ICSA1		ICSAB1		ICSA2		ICSAB2	
Metal	True	True	Results	% Rec	Results	% Rec	Results	% Rec	Results	% Rec
Aluminum	500000	500000	500000	100.0	502000	100.4	496000	99.2	491000	98.2
Antimony		1000	-1.6		1040	104.0	1.0		1070	107.0
Arsenic		1000	-1.2		1030	103.0	-1.1		1060	106.0
Barium		500	-0.20		527	105.4	-0.10		528	105.6
Beryllium		500	-0.40		497	99.4	-0.40		491	98.2
Cadmium		1000	-0.10		924	92.4	0.60		951	95.1
Calcium	500000	500000	471000	94.2	472000	94.4	464000	92.8	470000	94.0
Chromium		500	0.0		480	96.0	0.0		485	97.0
Cobalt		500	1.3		467	93.4	1.0		469	93.8
Copper		500	1.2		526	105.2	-0.90		537	107.4
Iron	200000	200000	185000	92.5	191000	95.5	180000	90.0	183000	91.5
Lead		1000	0.20		965	96.5	1.3		980	98.0
Magnesium	500000	500000	486000	97.2	489000	97.8	478000	95.6	480000	96.0
Manganese		500	-0.20		491	98.2	-0.40		510	102.0
Molybdenum		1000	0.0		917	91.7	-0.30		916	91.6
Nickel		1000	0.0		918	91.8	0.30		938	93.8
Potassium			52.0		65.1		193		98.8	
Selenium		1000	0.0		987	98.7	3.9		1020	102.0
Silver		1000	0.10		1020	102.0	0.20		1040	104.0
Sodium			125		143		394		276	
Strontium		1000	11.6		1010	101.0	11.8		1020	102.0
Thallium		1000	0.0		971	97.1	-0.70		987	98.7
Tin		1000	3.1		909	90.9	2.7		920	92.0
Titanium		1000	-4.2		967	96.7	-4.2		1000	100.0
Vanadium		500	-0.40		470	94.0	-0.60		490	98.0
Zinc		1000	-2.1		930	93.0	-2.9		944	94.4

(*) Outside of QC limits
(anr) Analyte not requested

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA6347
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB071813M1.ICP Date Analyzed: 07/18/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10903
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
08:07	MA10903-STD1	1		STDA
08:11	MA10903-STD2	1		STDB
08:15	MA10903-STD3	1		STDC
08:18	MA10903-STD4	1		STDD
08:22	MA10903-HSTD1	1		
08:30	MA10903-ICV1	1		
08:42	MA10903-ICB1	1		
08:51	MA10903-CRIA1	1		
08:59	MA10903-ICSA1	1		
09:10	MA10903-ICSAB1	1		
09:14	MA10903-CCV1	1		
09:27	MA10903-CCB1	1		
09:33	MP25499-MB1	1		
09:37	MP25499-B1	1		
09:41	FA6437-5	1		(sample used for QC only; not part of login FA6347)
09:45	MP25499-D1	1		
09:49	MP25499-SD1	5		
09:53	MP25499-PS1	1		
09:57	MP25499-S1	1		
10:01	MP25499-S2	1		
10:05	ZZZZZZ	1		
10:09	ZZZZZZ	1		
10:13	MA10903-CCV2	1		
10:17	MA10903-CCB2	1		
10:21	ZZZZZZ	1		
10:25	ZZZZZZ	1		
10:30	ZZZZZZ	1		
10:34	ZZZZZZ	1		
10:38	ZZZZZZ	1		
10:42	ZZZZZZ	1		
10:46	ZZZZZZ	1		
10:50	ZZZZZZ	1		
10:54	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA6347
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB071813M1.ICP Date Analyzed: 07/18/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10903
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
10:58	ZZZZZZ	1		
11:03	MA10903-CCV3	1		
11:07	MA10903-CCB3	1		
11:11	ZZZZZZ	1		
11:15	ZZZZZZ	1		
11:19	ZZZZZZ	1		
11:23	ZZZZZZ	1		
11:28	ZZZZZZ	1		
11:32	ZZZZZZ	1		
11:36	ZZZZZZ	1		
11:40	FA6347-1	10		
11:45	MP25495-D1	10		
11:49	MP25495-S1	10		
11:53	MA10903-CCV4	1		
11:57	MA10903-CCB4	1		
12:20	MA10903-CCV5	1		
12:26	MA10903-CCB5	1		
12:30	MP25495-S2	10		
12:34	MP25495-PS1	10		
12:38	MP25495-SD1	50		
---------->	Last reportable sample/prep for job FA6347			
12:42	ZZZZZZ	5		
12:46	ZZZZZZ	25		
12:51	ZZZZZZ	5		
12:55	ZZZZZZ	25		
12:59	ZZZZZZ	20		
13:03	ZZZZZZ	20		
13:07	MP25493-MB1	1		
13:11	MA10903-CCV6	1		
13:15	MA10903-CCB6	1		
13:20	MP25503-MB1	1		
13:24	MP25503-B1	1		
13:28	FA6397-1	1		(sample used for QC only; not part of login FA6347)
13:32	MP25503-D1	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA6347
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB071813M1.ICP Date Analyzed: 07/18/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10903
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
13:36	MP25503-SD1	5		
13:40	MP25503-S1	1		
13:44	MP25503-S2	1		
13:48	ZZZZZZ	1		
13:52	ZZZZZZ	1		
13:56	ZZZZZZ	1		
14:00	MA10903-CCV7	1		
14:04	MA10903-CCB7	1		
14:08	ZZZZZZ	1		
14:12	ZZZZZZ	1		
14:17	ZZZZZZ	1		
14:21	ZZZZZZ	1		
14:25	ZZZZZZ	1		
14:29	MP25503-D2	1		
14:33	MP25503-MB2	1		
14:37	MP25503-B2	1		
14:41	MP25503-MB3	1		
14:46	MP25503-B3	1		
14:49	MA10903-CCV8	1		
14:54	MA10903-CCB8	1		
14:58	MP25503-MB4	1		
15:02	MP25503-B4	1		
15:06	MP25504-MB1	1		
15:10	MP25504-B1	1		
15:14	FA6445-1	1		(sample used for QC only; not part of login FA6347)
15:18	MP25504-D1	1		
15:22	MP25504-SD1	5		
15:26	MP25504-PS1	1		
15:30	MP25504-S1	1		
15:34	MP25504-S2	1		
15:38	MA10903-CCV9	1		
15:42	MA10903-CCB9	1		
15:46	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA6347
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB071813M1.ICP Date Analyzed: 07/18/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10903
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
15:50	ZZZZZZ	1		
15:55	ZZZZZZ	1		
15:59	ZZZZZZ	1		
16:03	ZZZZZZ	1		
16:07	ZZZZZZ	1		
16:11	ZZZZZZ	1		
16:15	ZZZZZZ	1		
16:19	ZZZZZZ	1		
16:23	ZZZZZZ	1		
16:27	MA10903-CCV10	1		
16:31	MA10903-CCB10	1		
16:36	ZZZZZZ	1		
16:40	ZZZZZZ	1		
16:44	ZZZZZZ	1		
16:48	ZZZZZZ	1		
16:52	ZZZZZZ	1		
16:56	ZZZZZZ	1		
17:00	ZZZZZZ	1		
17:05	ZZZZZZ	1		
17:09	ZZZZZZ	1		
17:13	MP25504-MB2A	1		
17:17	MA10903-CCV11	1		
17:21	MA10903-CCB11	1		
17:25	MA10903-CRIA2	1		
17:29	MA10903-ICSA2	1		
17:33	MA10903-ICSAB2	1		
17:38	MA10903-CCV12	1		
17:42	MA10903-CCB12	1		

----------> Last reportable CCB for job FA6347
Refer to raw data for calibration curve and standards.

INTERNAL STANDARD SUMMARY

Login Number: FA6347
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB071813M1.ICP Date Analyzed: 07/18/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10903
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
08:07	MA10903-STD1	8226	44194	5126	3257
08:11	MA10903-STD2	7998	42710	5088	2937
08:15	MA10903-STD3	7659	40682	5035	2597
08:18	MA10903-STD4	7355	39203	4996	2343
08:22	MA10903-HSTD1	7332	39338	4985	2333
08:30	MA10903-ICV1	7681	40668	5006	2590
08:42	MA10903-ICB1	8301 R	44321 R	5103 R	3240 R
08:51	MA10903-CRIA1	8133	42808	5121	3028
08:59	MA10903-ICSA1	7004	35062	4837	2285
09:10	MA10903-ICSAB1	7017	35256	4794	2241
09:14	MA10903-CCV1	7736	39903	5013	2586
09:27	MA10903-CCB1	8315	42943	5051	3212
09:33	MP25499-MB1	8434	43978	5261	3209
09:37	MP25499-B1	7984	41789	5102	2751
09:41	FA6437-5	7789	40857	5056	2696
09:45	MP25499-D1	7802	40922	5084	2699
09:49	MP25499-SD1	8088	42498	5023	2937
09:53	MP25499-PS1	7782	40501	5036	2649
09:57	MP25499-S1	7744	40112	5005	2568
10:01	MP25499-S2	7696	40015	4990	2551
10:05	ZZZZZZ	8071	42034	5077	2833
10:09	ZZZZZZ	8120	42380	5187	2871
10:13	MA10903-CCV2	7762	40282	4929	2565
10:17	MA10903-CCB2	8318	43720	5049	3199
10:21	ZZZZZZ	8448	44900	5114	3194
10:25	ZZZZZZ	6466	38654	4925	2515
10:30	ZZZZZZ	8260	43145	5121	2920
10:34	ZZZZZZ	5017	39107	4908	2531
10:38	ZZZZZZ	7933	41099	5058	2718
10:42	ZZZZZZ	7952	41452	5074	2736
10:46	ZZZZZZ	7952	41464	5068	2745
10:50	ZZZZZZ	8229	43185	5127	2928
10:54	ZZZZZZ	8201	42698	5149	2877

INTERNAL STANDARD SUMMARY

Login Number: FA6347
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB071813M1.ICP Date Analyzed: 07/18/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10903
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
10:58	ZZZZZZ	7196	36880	4990	2510
11:03	MA10903-CCV3	7711	40272	4909	2566
11:07	MA10903-CCB3	8295	43838	5038	3204
11:11	ZZZZZZ	8047	42182	5101	2870
11:15	ZZZZZZ	8507	44374	5489	2746
11:19	ZZZZZZ	8088	42515	5129	2888
11:23	ZZZZZZ	7393	38534	4976	2516
11:28	ZZZZZZ	7953	41477	5284	2571
11:32	ZZZZZZ	7443	38732	5009	2497
11:36	ZZZZZZ	7622	38712	5069	2570
11:40	FA6347-1	8235	41481	5259	2754
11:45	MP25495-D1	8224	41583	5312	2729
11:49	MP25495-S1	8222	41455	5353	2679
11:53	MA10903-CCV4	7690	39342	4957	2575
11:57	MA10903-CCB4	8292	42525	5041	3234
12:20	MA10903-CCV5	7735	40541	4947	2564
12:26	MA10903-CCB5	8288	43527	5023	3210
12:30	MP25495-S2	8233	42350	5324	2659
12:34	MP25495-PS1	8208	42233	5196	2734
12:38	MP25495-SD1	8240	42936	5089	2983
12:42	ZZZZZZ	7715	40178	4959	2694
12:46	ZZZZZZ	8049	41907	4929	2973
12:51	ZZZZZZ	7753	40059	5007	2674
12:55	ZZZZZZ	8055	42167	4992	2963
12:59	ZZZZZZ	7941	42676	5021	3036
13:03	ZZZZZZ	7985	42790	4958	3034
13:07	MP25493-MB1	8481	44716	5117	3220
13:11	MA10903-CCV6	7776	40440	4911	2582
13:15	MA10903-CCB6	8291	43544	5014	3214
13:20	MP25503-MB1	8445	44878	5133	3246
13:24	MP25503-B1	7974	41691	5035	2792
13:28	FA6397-1	7856	40455	4988	2721
13:32	MP25503-D1	7859	40760	5002	2716

INTERNAL STANDARD SUMMARY

Login Number: FA6347
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB071813M1.ICP Date Analyzed: 07/18/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10903
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
13:36	MP25503-SD1	8086	42358	4995	2946
13:40	MP25503-S1	7707	39660	4973	2571
13:44	MP25503-S2	7707	39612	4952	2580
13:48	ZZZZZZ	7876	40748	5017	2727
13:52	ZZZZZZ	7376	38367	4857	2812
13:56	ZZZZZZ	7843	40595	4970	2752
14:00	MA10903-CCV7	7736	40244	4899	2572
14:04	MA10903-CCB7	8370	43861	5031	3232
14:08	ZZZZZZ	7741	40057	4959	2700
14:12	ZZZZZZ	7649	40850	5054	2762
14:17	ZZZZZZ	8247	43528	5122	3114
14:21	ZZZZZZ	8104	42010	5046	2919
14:25	ZZZZZZ	8110	43005	5170	2985
14:29	MP25503-D2	7892	41118	5120	2747
14:33	MP25503-MB2	7869	41088	5017	2776
14:37	MP25503-B2	7776	40388	5029	2636
14:41	MP25503-MB3	8447	44989	5176	3260
14:46	MP25503-B3	7963	41823	5034	2785
14:49	MA10903-CCV8	7735	40376	4935	2589
14:54	MA10903-CCB8	8325	44282	5026	3231
14:58	MP25503-MB4	8425	44696	5107	3252
15:02	MP25503-B4	7957	41835	5026	2787
15:06	MP25504-MB1	8414	44885	5134	3252
15:10	MP25504-B1	7961	41684	5048	2790
15:14	FA6445-1	8328	43937	5236	2894
15:18	MP25504-D1	8347	43758	5247	2906
15:22	MP25504-SD1	8326	43922	5074	3104
15:26	MP25504-PS1	8245	43441	5203	2830
15:30	MP25504-S1	8094	42529	5210	2706
15:34	MP25504-S2	8083	42243	5176	2700
15:38	MA10903-CCV9	7723	40513	4922	2591
15:42	MA10903-CCB9	8297	43929	5034	3228
15:46	ZZZZZZ	7213	38070	4917	2461

INTERNAL STANDARD SUMMARY

Login Number: FA6347
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB071813M1.ICP Date Analyzed: 07/18/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10903
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
15:50	ZZZZZZ	7471	39377	4915	2619
15:55	ZZZZZZ	8089	42966	5060	2914
15:59	ZZZZZZ	7250	38353	4928	2477
16:03	ZZZZZZ	7506	39722	4967	2640
16:07	ZZZZZZ	8313	44480	5129	3096
16:11	ZZZZZZ	8376	44387	5105	3205
16:15	ZZZZZZ	11583 !	61564 !	7288 !	2999
16:19	ZZZZZZ	8387	44346	5255	3017
16:23	ZZZZZZ	8393	44521	5215	3119
16:27	MA10903-CCV10	7756	40682	4964	2597
16:31	MA10903-CCB10	8394	44581	5025	3266
16:36	ZZZZZZ	8260	43689	5158	3066
16:40	ZZZZZZ	8440	44757	5323	2975
16:44	ZZZZZZ	8366	44290	5231	3049
16:48	ZZZZZZ	8850	46655	5627	2911
16:52	ZZZZZZ	7821	40908	5159	2636
16:56	ZZZZZZ	7382	38509	4963	2503
17:00	ZZZZZZ	8443	44201	5472	2572
17:05	ZZZZZZ	8470	44124	5495	2590
17:09	ZZZZZZ	8366	44397	5089	3117
17:13	MP25504-MB2A	8482	45401	5110	3269
17:17	MA10903-CCV11	7867	41269	4945	2637
17:21	MA10903-CCB11	8440	44934	5079	3286
17:25	MA10903-CRIA2	8252	43727	5047	3082
17:29	MA10903-ICSA2	7112	36626	4741	2309
17:33	MA10903-ICSAB2	7074	36204	4752	2256
17:38	MA10903-CCV12	7823	41140	4947	2628
17:42	MA10903-CCB12	8397	44499	5003	3275

R = Reference for ISTD limits. ! = Outside limits.

LEGEND:

Istd#	Parameter	Limits
Istd#1	Yttrium (2243)	60-125 %
Istd#2	Yttrium (3600)	60-125 %
Istd#3	Yttrium (3710)	60-125 %
Istd#4	Indium	60-125 %

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: FA6347
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB071813M1.ICP Date Analyzed: 07/18/13 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA10903 Units: ug/l

Time: / Sample ID:			08:42 ICB1		09:27 CCB1		10:17 CCB2		11:07 CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	15	15.5	<200	-1.7	<200	3.6	<200	1.1	<200
Antimony	6.0	1.3	0.70	<6.0	0.30	<6.0	0.90	<6.0	-1.2	<6.0
Arsenic	10	1.6	0.20	<10	0.10	<10	0.40	<10	0.60	<10
Barium	200	1	anr							
Beryllium	4.0	.5	anr							
Cadmium	5.0	.5	-0.10	<5.0	0.20	<5.0	0.30	<5.0	0.20	<5.0
Calcium	1000	50	-3.3	<1000	9.9	<1000	7.8	<1000	10.4	<1000
Chromium	10	1.8	0.10	<10	0.10	<10	0.30	<10	0.40	<10
Cobalt	50	.5	anr							
Copper	25	1	anr							
Iron	300	29	-1.8	<300	2.8	<300	8.4	<300	4.7	<300
Lead	5.0	1.1	anr							
Magnesium	5000	74	10.3	<5000	13.7	<5000	1.6	<5000	19.2	<5000
Manganese	15	.7	anr							
Molybdenum	50	.6								
Nickel	40	.5	anr							
Potassium	10000	200	42.1	<10000	-19	<10000	49.6	<10000	15.1	<10000
Selenium	10	2	-0.50	<10	0.50	<10	0.80	<10	1.3	<10
Silver	10	.5	anr							
Sodium	10000	500	17.7	<10000	35.4	<10000	72.5	<10000	170	<10000
Strontium	10	.5								
Thallium	10	1.3	anr							
Tin	50	.7								
Titanium	10	.9								
Vanadium	50	.5	anr							
Zinc	20	3	anr							

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: FA6347
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB071813M1.ICP Date Analyzed: 07/18/13 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA10903 Units: ug/l

Time:			11:57		12:26		13:15		14:04	
Sample ID:			CCB4		CCB5		CCB6		CCB7	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	15	2.3	<200	-5.1	<200	-0.80	<200	-3.1	<200
Antimony	6.0	1.3	-0.40	<6.0	0.40	<6.0	-0.30	<6.0	0.20	<6.0
Arsenic	10	1.6	0.10	<10	-0.10	<10	-0.30	<10	0.10	<10
Barium	200	1	anr							
Beryllium	4.0	.5	anr							
Cadmium	5.0	.5	0.20	<5.0	0.20	<5.0	0.20	<5.0	0.10	<5.0
Calcium	1000	50	7.6	<1000	2.3	<1000	7.6	<1000	3.4	<1000
Chromium	10	1.8	0.20	<10	0.50	<10	0.60	<10	0.30	<10
Cobalt	50	.5	anr							
Copper	25	1	anr							
Iron	300	29	6.4	<300	10.4	<300	11.9	<300	11.4	<300
Lead	5.0	1.1	anr							
Magnesium	5000	74	1.4	<5000	-3.2	<5000	4.2	<5000	9.7	<5000
Manganese	15	.7	anr							
Molybdenum	50	.6								
Nickel	40	.5	anr							
Potassium	10000	200	56.2	<10000	57.8	<10000	26.5	<10000	77.8	<10000
Selenium	10	2	0.20	<10	0.70	<10	0.80	<10	1.3	<10
Silver	10	.5	anr							
Sodium	10000	500	133	<10000	8.1	<10000	-10	<10000	57.6	<10000
Strontium	10	.5								
Thallium	10	1.3	anr							
Tin	50	.7								
Titanium	10	.9								
Vanadium	50	.5	anr							
Zinc	20	3	anr							

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: FA6347
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB071813M1.ICP Date Analyzed: 07/18/13 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA10903 Units: ug/l

Time: / Sample ID:			14:54 CCB8		15:42 CCB9		16:31 CCB10		17:21 CCB11	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	15	9.7	<200	-2.5	<200	5.5	<200	2.1	<200
Antimony	6.0	1.3	1.2	<6.0	0.0	<6.0	0.50	<6.0	0.40	<6.0
Arsenic	10	1.6	0.40	<10	-0.30	<10	-0.30	<10	-0.60	<10
Barium	200	1	anr							
Beryllium	4.0	.5	anr							
Cadmium	5.0	.5	0.10	<5.0	0.10	<5.0	0.10	<5.0	0.0	<5.0
Calcium	1000	50	3.8	<1000	2.8	<1000	2.0	<1000	3.4	<1000
Chromium	10	1.8	0.20	<10	0.40	<10	0.10	<10	0.10	<10
Cobalt	50	.5	anr							
Copper	25	1	anr							
Iron	300	29	11.1	<300	7.7	<300	11.4	<300	7.2	<300
Lead	5.0	1.1	anr							
Magnesium	5000	74	9.3	<5000	5.2	<5000	-6.0	<5000	4.1	<5000
Manganese	15	.7	anr							
Molybdenum	50	.6								
Nickel	40	.5	anr							
Potassium	10000	200	75.0	<10000	206	<10000	150	<10000	60.2	<10000
Selenium	10	2	1.5	<10	1.2	<10	1.1	<10	-0.30	<10
Silver	10	.5	anr							
Sodium	10000	500	48.4	<10000	21.4	<10000	-19	<10000	1.2	<10000
Strontium	10	.5								
Thallium	10	1.3	anr							
Tin	50	.7								
Titanium	10	.9								
Vanadium	50	.5	anr							
Zinc	20	3	anr							

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: FA6347
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB071813M1.ICP Date Analyzed: 07/18/13 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA10903 Units: ug/l

Time:			17:42	
Sample ID:			CCB12	
Metal	RL	IDL	raw	final
Aluminum	200	15	6.6	<200
Antimony	6.0	1.3	0.50	<6.0
Arsenic	10	1.6	0.0	<10
Barium	200	1	anr	
Beryllium	4.0	.5	anr	
Cadmium	5.0	.5	0.10	<5.0
Calcium	1000	50	11.5	<1000
Chromium	10	1.8	0.20	<10
Cobalt	50	.5	anr	
Copper	25	1	anr	
Iron	300	29	14.5	<300
Lead	5.0	1.1	anr	
Magnesium	5000	74	-5.3	<5000
Manganese	15	.7	anr	
Molybdenum	50	.6		
Nickel	40	.5	anr	
Potassium	10000	200	21.9	<10000
Selenium	10	2	2.2	<10
Silver	10	.5	anr	
Sodium	10000	500	-29	<10000
Strontium	10	.5		
Thallium	10	1.3	anr	
Tin	50	.7		
Titanium	10	.9		
Vanadium	50	.5	anr	
Zinc	20	3	anr	

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA6347
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB071813M1.ICP Date Analyzed: 07/18/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA10903 Units: ug/l

Time:		08:30			09:14			10:13	
Sample ID:	ICV	ICV1		CCV	CCV1		CCV	CCV2	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	40600	101.5	40000	41100	102.8	40000	41100	102.8
Antimony	2000	2020	101.0	2000	1920	96.0	2000	1930	96.5
Arsenic	2000	2020	101.0	2000	1930	96.5	2000	1930	96.5
Barium	anr								
Beryllium	anr								
Cadmium	2000	2040	102.0	2000	2020	101.0	2000	2020	101.0
Calcium	40000	40600	101.5	40000	41200	103.0	40000	41100	102.8
Chromium	2000	2040	102.0	2000	2110	105.5	2000	2060	103.0
Cobalt	anr								
Copper	anr								
Iron	40000	40600	101.5	40000	38500	96.3	40000	38500	96.3
Lead	anr								
Magnesium	40000	40500	101.3	40000	40100	100.3	40000	39800	99.5
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium	40000	40200	100.5	40000	38400	96.0	40000	39900	99.8
Selenium	2000	2030	101.5	2000	1930	96.5	2000	1930	96.5
Silver	anr								
Sodium	40000	40700	101.8	40000	41300	103.3	40000	41500	103.8
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium	anr								
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA6347
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB071813M1.ICP Date Analyzed: 07/18/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA10903 Units: ug/l

Time:		11:03			11:53			12:20	
Sample ID:	CCV	CCV3		CCV	CCV4		CCV	CCV5	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	41300	103.3	40000	41600	104.0	40000	39900	99.8
Antimony	2000	1960	98.0	2000	1960	98.0	2000	2000	100.0
Arsenic	2000	1960	98.0	2000	1950	97.5	2000	1990	99.5
Barium	anr								
Beryllium	anr								
Cadmium	2000	2030	101.5	2000	2060	103.0	2000	2010	100.5
Calcium	40000	41100	102.8	40000	41400	103.5	40000	40100	100.3
Chromium	2000	2060	103.0	2000	2140	107.0	2000	1970	98.5
Cobalt	anr								
Copper	anr								
Iron	40000	39100	97.8	40000	38800	97.0	40000	40300	100.8
Lead	anr								
Magnesium	40000	40100	100.3	40000	40300	100.8	40000	40200	100.5
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium	40000	40200	100.5	40000	38900	97.3	40000	40900	102.3
Selenium	2000	1960	98.0	2000	1950	97.5	2000	2000	100.0
Silver	anr								
Sodium	40000	40800	102.0	40000	41300	103.3	40000	40200	100.5
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium	anr								
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA6347
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB071813M1.ICP Date Analyzed: 07/18/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA10903 Units: ug/l

Time:		13:11			14:00			14:49	
Sample ID:	CCV	CCV6		CCV	CCV7		CCV	CCV8	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	40000	100.0	40000	40000	100.0	40000	39800	99.5
Antimony	2000	1990	99.5	2000	2020	101.0	2000	2020	101.0
Arsenic	2000	2000	100.0	2000	2000	100.0	2000	2000	100.0
Barium	anr								
Beryllium	anr								
Cadmium	2000	2020	101.0	2000	2020	101.0	2000	2010	100.5
Calcium	40000	40100	100.3	40000	40100	100.3	40000	39900	99.8
Chromium	2000	1980	99.0	2000	1980	99.0	2000	1970	98.5
Cobalt	anr								
Copper	anr								
Iron	40000	40300	100.8	40000	40200	100.5	40000	40300	100.8
Lead	anr								
Magnesium	40000	40300	100.8	40000	40200	100.5	40000	40100	100.3
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium	40000	40700	101.8	40000	40600	101.5	40000	40600	101.5
Selenium	2000	2000	100.0	2000	2020	101.0	2000	2010	100.5
Silver	anr								
Sodium	40000	40600	101.5	40000	39800	99.5	40000	39900	99.8
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium	anr								
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA6347
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB071813M1.ICP Date Analyzed: 07/18/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA10903 Units: ug/l

Time:		15:38			16:27			17:17	
Sample ID:	CCV	CCV9		CCV	CCV10		CCV	CCV11	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	39400	98.5	40000	39000	97.5	40000	38600	96.5
Antimony	2000	2030	101.5	2000	2020	101.0	2000	1990	99.5
Arsenic	2000	2010	100.5	2000	2000	100.0	2000	1980	99.0
Barium	anr								
Beryllium	anr								
Cadmium	2000	2000	100.0	2000	1980	99.0	2000	1960	98.0
Calcium	40000	39500	98.8	40000	39100	97.8	40000	38700	96.8
Chromium	2000	1950	97.5	2000	1920	96.0	2000	1900	95.0
Cobalt	anr								
Copper	anr								
Iron	40000	40400	101.0	40000	40200	100.5	40000	39700	99.3
Lead	anr								
Magnesium	40000	40000	100.0	40000	39600	99.0	40000	39300	98.3
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium	40000	40900	102.3	40000	40300	100.8	40000	39900	99.8
Selenium	2000	2020	101.0	2000	2010	100.5	2000	1990	99.5
Silver	anr								
Sodium	40000	39700	99.3	40000	39400	98.5	40000	38800	97.0
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium	anr								
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA6347
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB071813M1.ICP Date Analyzed: 07/18/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA10903 Units: ug/l

Time:		17:38	
Sample ID:	CCV	CCV12	
Metal	True	Results	% Rec
Aluminum	40000	38500	96.3
Antimony	2000	2000	100.0
Arsenic	2000	1990	99.5
Barium	anr		
Beryllium	anr		
Cadmium	2000	1960	98.0
Calcium	40000	38600	96.5
Chromium	2000	1910	95.5
Cobalt	anr		
Copper	anr		
Iron	40000	39800	99.5
Lead	anr		
Magnesium	40000	39200	98.0
Manganese	anr		
Molybdenum			
Nickel	anr		
Potassium	40000	40000	100.0
Selenium	2000	2000	100.0
Silver	anr		
Sodium	40000	38800	97.0
Strontium			
Thallium	anr		
Tin			
Titanium			
Vanadium	anr		
Zinc	anr		

(*) Outside of QC limits
(anr) Analyte not requested

HIGH STANDARD CHECK SUMMARY

Login Number: FA6347
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB071813M1.ICP Date Analyzed: 07/18/13 Methods: SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA10903 Units: ug/l

Time:		08:22	
Sample ID:	HSTD	HSTD1	
Metal	True	Results	% Rec
Aluminum	80000	79500	99.4
Antimony	4000	4020	100.5
Arsenic	4000	4030	100.8
Barium	anr		
Beryllium	anr		
Cadmium	4000	3990	99.8
Calcium	80000	79300	99.1
Chromium	4000	4000	100.0
Cobalt	anr		
Copper	anr		
Iron	80000	78800	98.5
Lead	anr		
Magnesium	80000	78600	98.3
Manganese	anr		
Molybdenum			
Nickel	anr		
Potassium	80000	80200	100.3
Selenium	4000	4010	100.3
Silver	anr		
Sodium	80000	78900	98.6
Strontium			
Thallium	anr		
Tin			
Titanium			
Vanadium	anr		
Zinc	anr		

(*) Outside of QC limits
(anr) Analyte not requested

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: FA6347
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB071813M1.ICP Date Analyzed: 07/18/13 Methods: SW846 6010C
QC Limits: CRI 70-130% CRIA 70-130% Run ID: MA10903 Units: ug/l

Time:			08:51		17:25	
Sample ID:	CRI	CRIA	CRIA1		CRIA2	
Metal	True	True	Results	% Rec	Results	% Rec
Aluminum	400	200	205	102.5	187	93.5
Antimony	10	5.0	5.5	110.0	3.4	68.0*(a)
Arsenic	20	10	9.9	99.0	10.0	100.0
Barium	400	200	anr			
Beryllium	10	5.0	anr			
Cadmium	10	5.0	5.0	100.0	5.0	100.0
Calcium	2000	1000	1030	103.0	1000	100.0
Chromium	20	10	10.1	101.0	9.8	98.0
Cobalt	100	50	anr			
Copper	50	25	anr			
Iron	600	300	305	101.7	325	108.3
Lead	10	5.0	anr			
Magnesium	10000	5000	5060	101.2	4940	98.8
Manganese	30	15	anr			
Molybdenum	100	50				
Nickel	80	40	anr			
Potassium	20000	10000	9800	98.0	9960	99.6
Selenium	20	10	10.7	107.0	10.4	104.0
Silver	20	10	anr			
Sodium	20000	10000	10200	102.0	9790	97.9
Strontium	20	10				
Thallium	20	10	anr			
Tin	100	50				
Titanium	20	10				
Vanadium	100	50	anr			
Zinc	40	20	anr			

(*) Outside of QC limits
(anr) Analyte not requested
(a) Possible instrument baseline drift.

INTERFERING ELEMENT CHECK STANDARDS SUMMARY
Part 1 - ICSA and ICSAB Standards

Login Number: FA6347
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB071813M1.ICP Date Analyzed: 07/18/13 Methods: SW846 6010C
QC Limits: 80 to 120 % Recovery Run ID: MA10903 Units: ug/l

Time:			08:59		09:10		17:29		17:33	
Sample ID:	ICSA	ICSAB	ICSA1		ICSAB1		ICSA2		ICSAB2	
Metal	True	True	Results	% Rec	Results	% Rec	Results	% Rec	Results	% Rec
Aluminum	500000	500000	514000	102.8	513000	102.6	483000	96.6	477000	95.4
Antimony		1000	-0.10		984	98.4	0.50		1030	103.0
Arsenic		1000	-1.7		1000	100.0	-1.2		1040	104.0
Barium		500	-0.50		513	102.6	0.0		526	105.2
Beryllium		500	-0.10		520	104.0	-0.10		474	94.8
Cadmium		1000	0.0		962	96.2	-0.50		933	93.3
Calcium	500000	500000	495000	99.0	491000	98.2	463000	92.6	463000	92.6
Chromium		500	-0.20		513	102.6	-0.30		469	93.8
Cobalt		500	-0.10		473	94.6	0.0		460	92.0
Copper		500	0.0		514	102.8	1.4		505	101.0
Iron	200000	200000	182000	91.0	183000	91.5	188000	94.0	190000	95.0
Lead		1000	0.0		965	96.5	-2.7		916	91.6
Magnesium	500000	500000	476000	95.2	471000	94.2	466000	93.2	463000	92.6
Manganese		500	-0.20		496	99.2	-0.30		502	100.4
Molybdenum		1000	-0.40		939	93.9	0.10		895	89.5
Nickel		1000	-0.90		909	90.9	-0.80		940	94.0
Potassium			216		149		214		165	
Selenium		1000	0.0		952	95.2	-0.90		993	99.3
Silver		1000	0.0		959	95.9	-0.60		954	95.4
Sodium			233		220		277		195	
Strontium		1000	12.4		1070	107.0	11.3		968	96.8
Thallium		1000	-1.1		983	98.3	0.70		915	91.5
Tin		1000	-1.8		910	91.0	-1.4		909	90.9
Titanium		1000	-4.9		1050	105.0	-4.4		949	94.9
Vanadium		500	-1.0		497	99.4	-0.80		466	93.2
Zinc		1000	1.2		977	97.7	0.30		939	93.9

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: FA6347
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

QC Batch ID: MP25495
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date:				07/17/13		07/17/13	
Metal	RL	IDL	MDL	MB raw	final	MB raw	final
Aluminum	200	15	15	7.1	<200	-5.9	<200
Antimony	6.0	1.3	1.3	-0.10	<6.0	-0.30	<6.0
Arsenic	10	1.6	2.5	-1.4	<10	-1.1	<10
Barium	200	1	1				
Beryllium	4.0	.5	.5				
Cadmium	5.0	.5	.5	-0.20	<5.0	-0.20	<5.0
Calcium	1000	50	50	0.80	<1000	40.7	<1000
Chromium	10	1.8	2	-0.20	<10	-0.20	<10
Cobalt	50	.5	.5				
Copper	25	1	1				
Iron	300	29	29	-5.8	<300	-12	<300
Lead	5.0	1.1	1.1				
Magnesium	5000	74	74	-6.9	<5000	0.40	<5000
Manganese	15	.7	.7				
Molybdenum	50	.6	1				
Nickel	40	.5	.5				
Potassium	10000	200	200	75.6	<10000	139	<10000
Selenium	10	2	2	-0.50	<10	0.10	<10
Silver	10	.5	.5				
Sodium	10000	500	500	58.3	<10000	403	<10000
Strontium	10	.5	.5				
Thallium	10	1.3	1.3				
Tin	50	.7	1.8				
Titanium	10	.9	1				
Vanadium	50	.5	1				
Zinc	20	3	5				

Associated samples MP25495: FA6347-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FA6347
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

QC Batch ID: MP25495
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date:			07/17/13					07/17/13	
Metal	FA6347-1 Original	DUP	RPD	QC Limits	FA6347-1 Original	MS	Spikelot MPFLICP1	% Rec	QC Limits
Aluminum	731000	781000	6.6	0-20	731000	948000	27000	803.7(b)	80-120
Antimony	0.0	0.0 (a)	NC	0-20	0.0	415 (a)	500	83.0	80-120
Arsenic	92.6	101 (a)	8.7	0-20	92.6	1810 (a)	2000	85.9	80-120
Barium	anr								
Beryllium									
Cadmium	1160	1240 (a)	6.7	0-20	1160	1530 (a)	50	740.0(b)	80-120
Calcium	365000	389000(a	6.4	0-20	365000	480000(a	25000	460.0(b)	80-120
Chromium	1080	1160 (a)	7.1	0-20	1080	1550 (a)	200	235.0(b)	80-120
Cobalt									
Copper	anr								
Iron	700000	743000	6.0	0-20	700000	894000	26000	746.2(b)	80-120
Lead	anr								
Magnesium	482000	512000	6.0	0-20	482000	623000	25000	564.0(b)	80-120
Manganese									
Molybdenum									
Nickel	anr								
Potassium	186000	198000	6.3	0-20	186000	251000	25000	260.0(b)	80-120
Selenium	0.0	0.0 (a)	NC	0-20	0.0	1720 (a)	2000	86.0	80-120
Silver									
Sodium	345000	371000	7.3	0-20	345000	458000	25000	452.0(b)	80-120
Strontium									
Thallium									
Tin									
Titanium									
Vanadium									
Zinc	anr								

Associated samples MP25495: FA6347-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) Elevated reporting limit(s) due to matrix interference.
(b) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FA6347
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

QC Batch ID: MP25495
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 07/17/13

Metal	FA6347-1 Original	MSD	Spikelot MPFLICP1	% Rec	MSD RPD	QC Limit
Aluminum	731000	909000	27000	659.3(a)	4.2	20
Antimony	0.0	433 (b)	500	86.6	4.2	20
Arsenic	92.6	1840 (b)	2000	87.4	1.6	20
Barium	anr					
Beryllium						
Cadmium	1160	1480 (b)	50	640.0(a)	3.3	20
Calcium	365000	468000(b	25000	412.0(a)	2.5	20
Chromium	1080	1440 (b)	200	180.0(a)	7.4	20
Cobalt						
Copper	anr					
Iron	700000	930000	26000	884.6(a)	3.9	20
Lead	anr					
Magnesium	482000	625000	25000	572.0(a)	0.3	20
Manganese						
Molybdenum						
Nickel	anr					
Potassium	186000	269000	25000	332.0(a)	6.9	20
Selenium	0.0	1750 (b)	2000	87.5	1.7	20
Silver						
Sodium	345000	451000	25000	424.0(a)	1.5	20
Strontium						
Thallium						
Tin						
Titanium						
Vanadium						
Zinc	anr					

Associated samples MP25495: FA6347-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.
(b) Elevated reporting limit(s) due to matrix interference.

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: FA6347
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

QC Batch ID: MP25495
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 07/17/13

Metal	BSP Result	Spikelot MPFLICP1	% Rec	QC Limits
Aluminum	27100	27000	100.4	80-120
Antimony	502	500	100.4	80-120
Arsenic	1980	2000	99.0	80-120
Barium	anr			
Beryllium				
Cadmium	49.4	50	98.8	80-120
Calcium	25500	25000	102.0	80-120
Chromium	204	200	102.0	80-120
Cobalt				
Copper	anr			
Iron	27300	26000	105.0	80-120
Lead	anr			
Magnesium	24300	25000	97.2	80-120
Manganese				
Molybdenum				
Nickel	anr			
Potassium	25600	25000	102.4	80-120
Selenium	1970	2000	98.5	80-120
Silver				
Sodium	25200	25000	100.8	80-120
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc	anr			

Associated samples MP25495: FA6347-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: FA6347
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

QC Batch ID: MP25495
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 07/17/13

Metal	FA6347-1 Original	SDL 10:50%DIF		QC Limits
Aluminum	731000	831000	13.6*(a)	0-10
Antimony	0.00	0.00	NC	0-10
Arsenic	92.6	0.00	100.0(b)	0-10
Barium	anr			
Beryllium				
Cadmium	1160	1360	16.7*(a)	0-10
Calcium	365000	420000	15.3*(a)	0-10
Chromium	1080	1170	8.3	0-10
Cobalt				
Copper	anr			
Iron	700000	865000	23.7*(a)	0-10
Lead	anr			
Magnesium	482000	571000	18.5*(a)	0-10
Manganese				
Molybdenum				
Nickel	anr			
Potassium	186000	228000	22.6*(a)	0-10
Selenium	0.00	0.00	NC	0-10
Silver				
Sodium	345000	402000	16.3*(a)	0-10
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc	anr			

Associated samples MP25495: FA6347-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Serial dilution indicates possible matrix interference.
(b) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

POST DIGESTATE SPIKE SUMMARY

Login Number: FA6347
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

QC Batch ID: MP25495
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 07/17/13

Metal	Sample ml	Final ml	FA6347-1 Raw	Corr.**	PS ug/l	Spike ml	Spike ug/ml	Spike ug/l	% Rec	QC Limits
Aluminum	9.8	10	731300	716674	653700	0.2	125	2500	-2519.0*a	80-120
Antimony	9.8	10	0	0	100.3	0.2	5	100	100.3	80-120
Arsenic	9.8	10	92.6	90.748	178.4	0.2	5	100	87.7	80-120
Barium										
Beryllium										
Cadmium	9.8	10	1162	1138.76	1108	0.2	2.5	50	-61.5*(a	80-120
Calcium	9.8	10	364600	357308	332000	0.2	250	5000	-506.2*a	80-120
Chromium	9.8	10	1080	1058.4	982.6	0.2	2.5	50	-151.6*a	80-120
Cobalt										
Copper										
Iron	9.8	10	699600	685608	673800	0.2	150	3000	-393.6*a	80-120
Lead										
Magnesium	9.8	10	481900	472262	449900	0.2	250	5000	-447.2*a	80-120
Manganese										
Molybdenum										
Nickel										
Potassium	9.8	10	186200	182476	188900	0.2	500	10000	64.2*(a)	80-120
Selenium	9.8	10	0	0	97	0.2	5	100	97.0	80-120
Silver										
Sodium	9.8	10	345400	338492	323600	0.2	500	10000	-148.9*a	80-120
Strontium										
Thallium										
Tin										
Titanium										
Vanadium										
Zinc										

Associated samples MP25495: FA6347-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(**) Corr. sample result = Raw * (sample volume / final volume)
(anr) Analyte not requested
(a) Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

Southeast ACCUTEST LABORATORIES

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries
- Instrument Runlogs/QC

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: FA6347
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Alkalinity, Total as CaCO3	GN56842	5.0	2.5	mg/l	250	246	98.4	90-113%
Chloride	GP22071/GN56756	2.0	0.0	mg/l	50	52.3	104.6	90-110%
Fluoride	GP22092/GN56802	0.20	0.0	mg/l	2.5	2.49	99.6	90-110%
Nitrogen, Nitrate	GP22071/GN56756	0.10	0.0	mg/l	2.5	2.50	100.0	90-110%
Phosphate, Ortho	GP22068/GN56742	0.10	0.0	mg/l	3000	0.33	109.0	83-116%
Phosphorus, Total	GP22073/GN56768	0.10	0.0	mg/l	.300	0.28	93.6	81-118%
Solids, Total Dissolved	GN56795	100	15.0	mg/l				
Specific Conductivity	GN56739	1.0	0.0	umhos/cm				
Sulfate	GP22071/GN56756	2.0	0.0	mg/l	50	49.9	99.8	90-110%

Associated Samples:
Batch GN56739: FA6347-1
Batch GN56795: FA6347-1
Batch GN56842: FA6347-1
Batch GP22068: FA6347-1F
Batch GP22071: FA6347-1
Batch GP22073: FA6347-1
Batch GP22092: FA6347-1
(*) Outside of QC limits

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: FA6347
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Alkalinity, Total as CaCO3	GN56842	FA6417-1	mg/l	318	318	0.0	0-20%
Solids, Total Dissolved	GN56795	FA6342-5	mg/l	345	346	0.3	0-5%
Specific Conductivity	GN56739	FA6347-1	umhos/cm	10600	10600	0.2	0-10%
pH	GN56740	FA6347-1	su	2.44	2.43	0.4	0-10%

Associated Samples:
Batch GN56739: FA6347-1
Batch GN56740: FA6347-1
Batch GN56795: FA6347-1
Batch GN56842: FA6347-1
(*) Outside of QC limits

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: FA6347
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Chloride	GP22071/GN56756	FA6342-3	mg/l	13.8	50	64.1	100.6	90-110%
Fluoride	GP22092/GN56802	FA6289-1	mg/l	0.22	2.5	3.6	135.2N(a)	90-110%
Nitrogen, Nitrate	GP22071/GN56756	FA6342-3	mg/l	0.44	2.5	3.0	102.4	90-110%
Phosphate, Ortho	GP22068/GN56742	FA6347-1F	mg/l	1150	3000	4120	99.0	83-116%
Phosphorus, Total	GP22073/GN56768	FA6347-1	mg/l	1270	300	2010	248.0(a)	81-118%
Sulfate	GP22071/GN56756	FA6342-3	mg/l	64.6	50	111	92.8	90-110%

Associated Samples:
Batch GP22068: FA6347-1F
Batch GP22071: FA6347-1
Batch GP22073: FA6347-1
Batch GP22092: FA6347-1
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(a) Spike recovery indicates possible matrix interference.

MATRIX SPIKE DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: FA6347
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MSD Result	RPD	QC Limit
Chloride	GP22071/GN56756	FA6342-3	mg/l	13.8	50	64.1	0.0	20%
Fluoride	GP22092/GN56802	FA6289-1	mg/l	0.22	2.5	3.7	2.7	20%
Nitrogen, Nitrate	GP22071/GN56756	FA6342-3	mg/l	0.44	2.5	3.0	0.0	20%
Phosphate, Ortho	GP22068/GN56742	FA6347-1F	mg/l	1150	3000	4200	2.0	26%
Phosphorus, Total	GP22073/GN56768	FA6347-1	mg/l	1270	300	2070	2.5	22%
Sulfate	GP22071/GN56756	FA6342-3	mg/l	64.6	50	112	0.9	20%

Associated Samples:
Batch GP22068: FA6347-1F
Batch GP22071: FA6347-1
Batch GP22073: FA6347-1
Batch GP22092: FA6347-1
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA6347
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: 313120701.TXT Date Analyzed: 07/12/13 Methods: EPA 300/SW846 9056A
Analyst: AC Run ID: GN56756
Parameters: Chloride,Nitrogen, Nitrate,Sulfate

Time	Sample Description	Dilution Factor	PS Recov	Comments
09:42	GN56756-CCV1	1		
09:57	GP22071-MB1	1		
10:13	GP22071-B1	1		
11:01	ZZZZZZ	1		
11:17	ZZZZZZ	1		
11:33	FA6342-3	1		(sample used for QC only; not part of login FA6347)
11:49	ZZZZZZ	1		
12:04	FA6342-5	1		(sample used for QC only; not part of login FA6347)
12:20	GN56756-CCV2	1		
12:36	GN56756-CCB1	1		
12:52	GP22071-S1	1		
13:08	GP22071-S2	1		
13:24	FA6347-1	100		
13:40	ZZZZZZ	1		
13:56	ZZZZZZ	2		
14:12	ZZZZZZ	1		
14:28	ZZZZZZ	1		
14:44	ZZZZZZ	1		
15:00	ZZZZZZ	1		
15:15	ZZZZZZ	2		
15:31	GN56756-CCV3	1		
15:47	GN56756-CCB2	1		
16:19	GP22071-S3	1		
16:35	GP22071-S4	1		
16:51	ZZZZZZ	2		
17:07	ZZZZZZ	2		
17:23	GN56756-CCV4	1		
17:38	GN56756-CCB3	1		

Refer to raw data for calibration curve and standards.

Instrument QC Summary
Inorganics Analyses

Login Number: FA6347
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: 313120701.TXT Date Analyzed: 07/12/13 Methods: EPA 300/SW846 9056A
Run ID: GN56756 Units: mg/l

Sample Number	Parameter	Result	RL	IDL/MDL	True Value	% Recov.	QC Limits
GN56756-CCV1	Chloride	52.2	2.0	0.80	50	104.4	90-110
GN56756-CCV1	Nitrogen, Nitrate	2.7	0.10	0.050	2.5	108.0	90-110
GN56756-CCV1	Sulfate	53.6	2.0	0.60	50	107.2	90-110
GN56756-CCV2	Chloride	52.1	2.0	0.80	50	104.2	90-110
GN56756-CCV2	Nitrogen, Nitrate	2.7	0.10	0.050	2.5	108.0	90-110
GN56756-CCV2	Sulfate	52.5	2.0	0.60	50	105.0	90-110
GN56756-CCB1	Chloride	0.80 U	2.0	0.80			
GN56756-CCB1	Nitrogen, Nitrate	0.050 U	0.10	0.050			
GN56756-CCB1	Sulfate	0.60 U	2.0	0.60			
GN56756-CCV3	Chloride	52.2	2.0	0.80	50	104.4	90-110
GN56756-CCV3	Nitrogen, Nitrate	2.7	0.10	0.050	2.5	108.0	90-110
GN56756-CCV3	Sulfate	52.4	2.0	0.60	50	104.8	90-110
GN56756-CCB2	Chloride	0.80 U	2.0	0.80			
GN56756-CCB2	Nitrogen, Nitrate	0.050 U	0.10	0.050			
GN56756-CCB2	Sulfate	0.60 U	2.0	0.60			
GN56756-CCV4	Chloride	52.3	2.0	0.80	50	104.6	90-110
GN56756-CCV4	Nitrogen, Nitrate	2.7	0.10	0.050	2.5	108.0	90-110
GN56756-CCV4	Sulfate	52.7	2.0	0.60	50	105.4	90-110
GN56756-CCB3	Chloride	0.80 U	2.0	0.80			
GN56756-CCB3	Nitrogen, Nitrate	0.050 U	0.10	0.050			
GN56756-CCB3	Sulfate	0.60 U	2.0	0.60			

(!) Outside of QC limits

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA6347
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: 213160701.TXT Date Analyzed: 07/16/13 Methods: EPA 300/SW846 9056A
Analyst: AA Run ID: GN56802
Parameters: Fluoride

Time	Sample Description	Dilution Factor	PS Recov	Comments
19:54	GN56802-CCV1	1		
20:10	GP22092-MB1	1		
20:27	GP22092-B1	1		
21:35	ZZZZZZ	1		
21:52	ZZZZZZ	1		
22:09	ZZZZZZ	5		
22:26	FA6347-1	2000		
22:43	ZZZZZZ	1		
23:00	GN56802-CCV2	1		
23:17	GN56802-CCB1	1		
23:34	FA6289-1	1		(sample used for QC only; not part of login FA6347)
23:51	ZZZZZZ	1		
00:08	ZZZZZZ	1		
00:25	ZZZZZZ	1		
00:42	GP22092-S1	1		
00:58	GP22092-S2	1		
01:15	GN56802-CCV3	1		
01:32	GN56802-CCB2	1		

Refer to raw data for calibration curve and standards.

Instrument QC Summary
Inorganics Analyses

Login Number: FA6347
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: 213160701.TXT Date Analyzed: 07/16/13 Methods: EPA 300/SW846 9056A
Run ID: GN56802 Units: mg/l

Sample Number	Parameter	Result	RL	IDL/MDL	True Value	% Recov.	QC Limits
GN56802-CCV1	Fluoride	2.6	0.20	0.060	2.5	104.0	90-110
GN56802-CCV2	Fluoride	2.5	0.20	0.060	2.5	100.0	90-110
GN56802-CCB1	Fluoride	0.060 U	0.20	0.060			
GN56802-CCV3	Fluoride	2.6	0.20	0.060	2.5	104.0	90-110
GN56802-CCB2	Fluoride	0.060 U	0.20	0.060			

(!) Outside of QC limits

Southeast
ACCUTEST LABORATORIES

08/01/13

Technical Report for

WSP Environment & Energy

Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID 36785.01

Accutest Job Number: FA6569

Sampling Date: 07/18/13

Report to:

WSP Environment & Energy
205 West Park Street
Jackson, MO 63755
tim.huff@wspgroup.com

ATTN: Tim Huff

Total number of pages in report: **89**

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Harry Behzadi, Ph.D.
Laboratory Director

Client Service contact: Andrea Colby 407-425-6700

Certifications: FL (E83510), LA (03051), KS (E-10327), IA (366), IL (200063), NC (573), NJ (FL002), SC (96038001) DoD ELAP (L-A-B L2229), CA (04226CA), TX (T104704404), AK, AR, GA, KY, MA, NV, OK, UT, VA, WA, WI

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Sample Summary

WSP Environment & Energy

Job No: FA6569

Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID
Project No: 36785.01

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA6569-1	07/18/13	09:30	TPTP	07/19/13	AQ	Ground Water	A-34-022
FA6569-1F	07/18/13	09:30	TPTP	07/19/13	AQ	Groundwater Filtered	A-34-022
FA6569-2	07/18/13	11:00	TPTP	07/19/13	AQ	Ground Water	NW9
FA6569-2F	07/18/13	11:00	TPTP	07/19/13	AQ	Groundwater Filtered	NW9
FA6569-3	07/18/13	09:55	TPTP	07/19/13	AQ	Ground Water	A-27-135
FA6569-3F	07/18/13	09:55	TPTP	07/19/13	AQ	Groundwater Filtered	A-27-135
FA6569-4	07/18/13	11:30	TPTP	07/19/13	AQ	Ground Water	A-27-090
FA6569-4F	07/18/13	11:30	TPTP	07/19/13	AQ	Groundwater Filtered	A-27-090

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: WSP Environment & Energy **Job:** FA6569

Site: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID **Report Date:** 7/31/2013 3:10:24 PM

4 Sample(s) were collected on 07/18/2013 and were received at Accutest SE on 07/19/2013 properly preserved, at 2.8 Deg. C and intact. These Samples received an Accutest job number of FA6569. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Metals By Method SW846 6010C

Matrix: AQ **Batch ID:** MP25566

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA6731-2DUP, FA6731-2MS, FA6731-2MSD, FA6731-2PS, FA6731-2SDL were used as the QC samples for metals.

Matrix Spike Recovery(s)/Matrix Spike Duplicate Recovery(s) for Aluminum, Antimony, Arsenic, Cadmium, Calcium, Chromium, Magnesium, Potassium are outside control limits. Spike recovery indicates possible matrix interference.
Matrix Spike Recovery(s)/Matrix Spike Duplicate Recovery(s) for Iron, Sodium are outside control limits. Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

RPD(s) for Duplicate for Selenium are outside control limits for sample MP25566-D1. RPD acceptable due to low duplicate and sample concentrations.

RPD(s) for Serial Dilution for Arsenic, Cadmium, Selenium, Sodium, Aluminum, Calcium, Chromium, Iron, Magnesium, Potassium are outside control limits for sample MP25566-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

MP25566-SD1 for Iron: Serial dilution indicates possible matrix interference.

MP25566-SD1 for Potassium: Serial dilution indicates possible matrix interference.

MP25566-SD1 for Magnesium: Serial dilution indicates possible matrix interference.

MP25566-SD1 for Aluminum: Serial dilution indicates possible matrix interference.

MP25566-SD1 for Chromium: Serial dilution indicates possible matrix interference.

MP25566-SD1 for Calcium: Serial dilution indicates possible matrix interference.

MP25566-PS1 for Magnesium: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP25566-PS1 for Potassium: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP25566-PS1 for Sodium: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP25566-PS1 for Chromium: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP25566-PS1 for Cadmium: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP25566-PS1 for Antimony: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP25566-PS1 for Aluminum: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP25566-PS1 for Arsenic: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

FA6569-1 for Calcium: Elevated reporting limit(s) due to matrix interference.
FA6569-1 for Arsenic: Elevated reporting limit(s) due to matrix interference.

Metals By Method SW846 6010C

Matrix: AQ **Batch ID:** MP25566

FA6569-1 for Chromium: Elevated reporting limit(s) due to matrix interference.

FA6569-1 for Selenium: Elevated reporting limit(s) due to matrix interference.

FA6569-1 for Antimony: Elevated reporting limit(s) due to matrix interference.

FA6569-1 for Cadmium: Elevated reporting limit(s) due to matrix interference.

Wet Chemistry By Method EPA 120.1

Matrix: AQ **Batch ID:** GN56847

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA6569-1DUP was used as the QC sample for Specific Conductivity.

Wet Chemistry By Method EPA 300/SW846 9056A

Matrix: AQ **Batch ID:** GP22137

All samples were prepped within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA6574-4MS, FA6574-4MSD were used as the QC samples for Chloride, Nitrogen, Nitrate, Sulfate.
FA6569-1 for Chloride: Dilution required due to matrix interference.
FA6569-1 for Nitrogen, Nitrate: Dilution required due to matrix interference.
FA6569-2 for Nitrogen, Nitrate: Originally ran in hold. Re-ran at dilution beyond hold time.

Matrix: AQ **Batch ID:** GP22141

All samples were prepped within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA6576-3MSD, FA6576-3MS were used as the QC samples for Chloride, Nitrogen, Nitrate, Sulfate.
Matrix Spike Recovery(s) for Nitrogen, Nitrate are outside control limits. Spike recovery indicates possible matrix interference. Refer to lab control or spike blank for recovery information.

Matrix Spike Recovery(s) for Chloride and Sulfate are outside control limits. Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.
FA6569-4 for Chloride: Dilution required due to matrix interference.

Matrix: AQ **Batch ID:** GP22198

All samples were prepped within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA6524-3MSD, FA6524-3MS were used as the QC samples for Fluoride.

Matrix Spike Recovery(s) for Fluoride are outside control limits. Spike recovery indicates possible matrix interference. Refer to lab control or spike blank for recovery information.

FA6569-3 for Fluoride: Dilution required due to matrix interference.

FA6569-4 for Fluoride: Dilution required due to matrix interference.

Wet Chemistry By Method EPA 365.3

Matrix: AQ **Batch ID:** GP22120

All samples were prepped within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA6522-3FMS, FA6522-3FMSD were used as the QC samples for Phosphate, Ortho.

Matrix: AQ **Batch ID:** GP22139

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA6524-1MSD, FA6524-1MS were used as the QC samples for Phosphorus, Total.

GP22139-S1 for Phosphorus, Total: Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

Wet Chemistry By Method SM 4500H B/SW 9040C

Matrix: AQ **Batch ID:** GN56841

Sample(s) FA6569-2DUP was used as the QC sample for pH.

FA6569-1 for pH: Field analysis required. Received out of hold time and analyzed by request.

FA6569-2 for pH: Field analysis required. Received out of hold time and analyzed by request.

FA6569-3 for pH: Field analysis required. Received out of hold time and analyzed by request.

FA6569-4 for pH: Field analysis required. Received out of hold time and analyzed by request.

Wet Chemistry By Method SM19 2320B

Matrix: AQ **Batch ID:** GN56937

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA6569-2DUP was used as the QC samples for Alkalinity, Total as CaCO3.

Matrix: AQ **Batch ID:** GN57005

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA6569-3DUP was used as the QC samples for Alkalinity, Total as CaCO3.

Wet Chemistry By Method SM19 2540C

Matrix: AQ **Batch ID:** GN56969

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA6621-4DUP was used as the QC sample for Solids, Total Dissolved.

Accutest Laboratories Southeast (ALSE) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALSE and as stated on the COC. ALSE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the ALSE Quality Manual except as noted above. This report is to be used in its entirety. ALSE is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

_____ Date: July 31, 2013

Kim Benham, Client Services (signature on file)

Summary of Hits

Job Number: FA6569
Account: WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID
Collected: 07/18/13

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA6569-1	**A-34-022**					
Aluminum		1010	1.0	0.075	mg/l	SW846 6010C
Arsenic [a]		0.169	0.050	0.013	mg/l	SW846 6010C
Cadmium [a]		1.69	0.025	0.0025	mg/l	SW846 6010C
Calcium [a]		533	5.0	0.25	mg/l	SW846 6010C
Chromium [a]		1.26	0.050	0.010	mg/l	SW846 6010C
Iron		948	1.5	0.15	mg/l	SW846 6010C
Magnesium		710	25	0.37	mg/l	SW846 6010C
Potassium		296	50	1.0	mg/l	SW846 6010C
Selenium [a]		0.0321 J	0.050	0.010	mg/l	SW846 6010C
Sodium		499	50	2.5	mg/l	SW846 6010C
Chloride [b]		136 J	200	80	mg/l	EPA 300/SW846 9056A
Fluoride		4650	400	120	mg/l	EPA 300/SW846 9056A
Nitrogen, Nitrate [b]		7.8 J	10	5.0	mg/l	EPA 300/SW846 9056A
Phosphorus, Total		2080	500	140	mg/l	EPA 365.3
Solids, Total Dissolved		19600	1000	100	mg/l	SM19 2540C
Specific Conductivity		12900	1.0	1.0	umhos/cm	EPA 120.1
Sulfate		9630	200	60	mg/l	EPA 300/SW846 9056A
pH [c]		2.35			su	SM 4500H B/SW 9040C
FA6569-1F	**A-34-022**					
Phosphate, Ortho		1730	500	95	mg/l	EPA 365.3
FA6569-2	**NW9**					
Aluminum		3.65	0.20	0.015	mg/l	SW846 6010C
Arsenic		0.0050 J	0.010	0.0025	mg/l	SW846 6010C
Cadmium		0.0094	0.0050	0.00050	mg/l	SW846 6010C
Calcium		231	1.0	0.050	mg/l	SW846 6010C
Iron		0.109 J	0.30	0.029	mg/l	SW846 6010C
Magnesium		96.5	5.0	0.074	mg/l	SW846 6010C
Potassium		7.69 J	10	0.20	mg/l	SW846 6010C
Selenium		0.0143	0.010	0.0020	mg/l	SW846 6010C
Sodium		65.4	10	0.50	mg/l	SW846 6010C
Alkalinity, Bicarbonate as CaCO3		230	5.0	5.0	mg/l	SM18 4500CO2D
Alkalinity, Total as CaCO3		230	5.0	0.60	mg/l	SM19 2320B
Chloride		91.3	10	4.0	mg/l	EPA 300/SW846 9056A
Fluoride		16.3	1.0	0.30	mg/l	EPA 300/SW846 9056A
Nitrogen, Nitrate [d]		25.2	1.0	0.50	mg/l	EPA 300/SW846 9056A
Phosphorus, Total		2.7	1.0	0.28	mg/l	EPA 365.3
Solids, Total Dissolved		1850	100	10	mg/l	SM19 2540C
Specific Conductivity		1940	1.0	1.0	umhos/cm	EPA 120.1
Sulfate		597	20	6.0	mg/l	EPA 300/SW846 9056A

Summary of Hits

Job Number: FA6569
Account: WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID
Collected: 07/18/13

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
pH [c]		6.68			su	SM 4500H B/SW 9040C
FA6569-2F	**NW9**					
Phosphate, Ortho		8.3	2.5	0.48	mg/l	EPA 365.3
FA6569-3	**A-27-135**					
Aluminum		0.0967 J	0.20	0.015	mg/l	SW846 6010C
Antimony		0.0015 J	0.0060	0.0013	mg/l	SW846 6010C
Arsenic		0.0494	0.010	0.0025	mg/l	SW846 6010C
Cadmium		0.0010 J	0.0050	0.00050	mg/l	SW846 6010C
Calcium		399	1.0	0.050	mg/l	SW846 6010C
Iron		0.0613 J	0.30	0.029	mg/l	SW846 6010C
Magnesium		199	5.0	0.074	mg/l	SW846 6010C
Potassium		35.2	10	0.20	mg/l	SW846 6010C
Selenium		0.0546	0.010	0.0020	mg/l	SW846 6010C
Sodium		434	100	5.0	mg/l	SW846 6010C
Alkalinity, Bicarbonate as CaCO3		892	5.0	5.0	mg/l	SM18 4500CO2D
Alkalinity, Total as CaCO3		892	25	3.0	mg/l	SM19 2320B
Chloride		71.7	50	20	mg/l	EPA 300/SW846 9056A
Nitrogen, Nitrate		43.2	2.5	1.3	mg/l	EPA 300/SW846 9056A
Phosphorus, Total		108	50	14	mg/l	EPA 365.3
Solids, Total Dissolved		2770	500	50	mg/l	SM19 2540C
Specific Conductivity		4630	1.0	1.0	umhos/cm	EPA 120.1
Sulfate		1660	50	15	mg/l	EPA 300/SW846 9056A
pH [c]		6.44			su	SM 4500H B/SW 9040C
FA6569-3F	**A-27-135**					
Phosphate, Ortho		58.7	20	3.8	mg/l	EPA 365.3
FA6569-4	**A-27-090**					
Aluminum		0.0667 J	0.20	0.015	mg/l	SW846 6010C
Arsenic		0.0235	0.010	0.0025	mg/l	SW846 6010C
Calcium		365	1.0	0.050	mg/l	SW846 6010C
Iron		0.0532 J	0.30	0.029	mg/l	SW846 6010C
Magnesium		204	5.0	0.074	mg/l	SW846 6010C
Potassium		44.7	10	0.20	mg/l	SW846 6010C
Selenium		0.0455	0.010	0.0020	mg/l	SW846 6010C
Sodium		257	100	5.0	mg/l	SW846 6010C
Alkalinity, Bicarbonate as CaCO3		664	5.0	5.0	mg/l	SM18 4500CO2D
Alkalinity, Total as CaCO3		664	25	3.0	mg/l	SM19 2320B
Chloride [b]		43.3 J	50	20	mg/l	EPA 300/SW846 9056A

Summary of Hits

Job Number: FA6569
Account: WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID
Collected: 07/18/13

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Nitrogen, Nitrate		76.9	2.5	1.3	mg/l	EPA 300/SW846 9056A
Phosphorus, Total		106	50	14	mg/l	EPA 365.3
Solids, Total Dissolved		4150	500	50	mg/l	SM19 2540C
Specific Conductivity		4450	1.0	1.0	umhos/cm	EPA 120.1
Sulfate		1630	50	15	mg/l	EPA 300/SW846 9056A
pH [c]		6.40			su	SM 4500H B/SW 9040C
FA6569-4F	**A-27-090**					
Phosphate, Ortho		55.0	20	3.8	mg/l	EPA 365.3

(a) Elevated reporting limit(s) due to matrix interference.
(b) Dilution required due to matrix interference.
(c) Field analysis required. Received out of hold time and analyzed by request.
(d) Originally ran in hold. Re-ran at dilution beyond hold time.

Southeast ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: A-34-022
Lab Sample ID: FA6569-1
Matrix: AQ - Ground Water
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

Date Sampled: 07/18/13
Date Received: 07/19/13
Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	1010	1.0	0.075	mg/l	5	07/26/13	07/30/13	LM	SW846 6010C [1]	SW846 3010A [2]
Antimony [a]	0.0065 U	0.030	0.0065	mg/l	5	07/26/13	07/30/13	LM	SW846 6010C [1]	SW846 3010A [2]
Arsenic [a]	0.169	0.050	0.013	mg/l	5	07/26/13	07/30/13	LM	SW846 6010C [1]	SW846 3010A [2]
Cadmium [a]	1.69	0.025	0.0025	mg/l	5	07/26/13	07/30/13	LM	SW846 6010C [1]	SW846 3010A [2]
Calcium [a]	533	5.0	0.25	mg/l	5	07/26/13	07/30/13	LM	SW846 6010C [1]	SW846 3010A [2]
Chromium [a]	1.26	0.050	0.010	mg/l	5	07/26/13	07/30/13	LM	SW846 6010C [1]	SW846 3010A [2]
Iron	948	1.5	0.15	mg/l	5	07/26/13	07/30/13	LM	SW846 6010C [1]	SW846 3010A [2]
Magnesium	710	25	0.37	mg/l	5	07/26/13	07/30/13	LM	SW846 6010C [1]	SW846 3010A [2]
Potassium	296	50	1.0	mg/l	5	07/26/13	07/30/13	LM	SW846 6010C [1]	SW846 3010A [2]
Selenium [a]	0.0321 J	0.050	0.010	mg/l	5	07/26/13	07/30/13	LM	SW846 6010C [1]	SW846 3010A [2]
Sodium	499	50	2.5	mg/l	5	07/26/13	07/30/13	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10935
(2) Prep QC Batch: MP25566

(a) Elevated reporting limit(s) due to matrix interference.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: A-34-022
Lab Sample ID: FA6569-1
Matrix: AQ - Ground Water
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

Date Sampled: 07/18/13
Date Received: 07/19/13
Percent Solids: n/a

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Alkalinity, Bicarbonate as CaC	5.0 U	5.0	5.0	mg/l	1	07/24/13 11:45	HH	SM18 4500CO2D
Alkalinity, Carbonate	5.0 U	5.0	5.0	mg/l	1	07/24/13 11:45	HH	SM18 4500CO2D
Alkalinity, Total as CaCO3	0.60 U	5.0	0.60	mg/l	1	07/24/13 11:45	HH	SM19 2320B
Chloride [a]	136 J	200	80	mg/l	100	07/19/13 23:04	AC	EPA 300/SW846 9056A
Fluoride	4650	400	120	mg/l	2000	07/30/13 16:20	AA	EPA 300/SW846 9056A
Nitrogen, Nitrate [a]	7.8 J	10	5.0	mg/l	100	07/19/13 23:04	AC	EPA 300/SW846 9056A
Phosphorus, Total	2080	500	140	mg/l	5000	07/22/13 10:10	LE	EPA 365.3
Solids, Total Dissolved	19600	1000	100	mg/l	10	07/25/13 14:50	KC	SM19 2540C
Specific Conductivity	12900	1.0	1.0	umhos/cm	1	07/19/13 14:30	AA	EPA 120.1
Sulfate	9630	200	60	mg/l	100	07/19/13 23:04	AC	EPA 300/SW846 9056A
pH [b]	2.35			su	1	07/19/13 14:45	HH	SM 4500H B/SW 9040C

(a) Dilution required due to matrix interference.
(b) Field analysis required. Received out of hold time and analyzed by request.

RL = Reporting Limit
MDL = Method Detection Limit
U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	A-34-022		
Lab Sample ID:	FA6569-1F	**Date Sampled:**	07/18/13
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/19/13
		Percent Solids:	n/a
Project:	Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Phosphate, Ortho	1730	500	95	mg/l	5000	07/19/13 11:00	LE	EPA 365.3

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: NW9
Lab Sample ID: FA6569-2
Matrix: AQ - Ground Water
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

Date Sampled: 07/18/13
Date Received: 07/19/13
Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	3.65	0.20	0.015	mg/l	1	07/26/13	07/29/13	LM	SW846 6010C [1]	SW846 3010A [2]
Antimony	0.0013 U	0.0060	0.0013	mg/l	1	07/26/13	07/29/13	LM	SW846 6010C [1]	SW846 3010A [2]
Arsenic	0.0050 J	0.010	0.0025	mg/l	1	07/26/13	07/29/13	LM	SW846 6010C [1]	SW846 3010A [2]
Cadmium	0.0094	0.0050	0.00050	mg/l	1	07/26/13	07/29/13	LM	SW846 6010C [1]	SW846 3010A [2]
Calcium	231	1.0	0.050	mg/l	1	07/26/13	07/29/13	LM	SW846 6010C [1]	SW846 3010A [2]
Chromium	0.0020 U	0.010	0.0020	mg/l	1	07/26/13	07/29/13	LM	SW846 6010C [1]	SW846 3010A [2]
Iron	0.109 J	0.30	0.029	mg/l	1	07/26/13	07/29/13	LM	SW846 6010C [1]	SW846 3010A [2]
Magnesium	96.5	5.0	0.074	mg/l	1	07/26/13	07/29/13	LM	SW846 6010C [1]	SW846 3010A [2]
Potassium	7.69 J	10	0.20	mg/l	1	07/26/13	07/29/13	LM	SW846 6010C [1]	SW846 3010A [2]
Selenium	0.0143	0.010	0.0020	mg/l	1	07/26/13	07/29/13	LM	SW846 6010C [1]	SW846 3010A [2]
Sodium	65.4	10	0.50	mg/l	1	07/26/13	07/29/13	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10932
(2) Prep QC Batch: MP25566

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	NW9		
Lab Sample ID:	FA6569-2	**Date Sampled:**	07/18/13
Matrix:	AQ - Ground Water	**Date Received:**	07/19/13
		Percent Solids:	n/a
Project:	Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Alkalinity, Bicarbonate as CaC	230	5.0	5.0	mg/l	1	07/24/13 11:45	HH	SM18 4500CO2D
Alkalinity, Carbonate	5.0 U	5.0	5.0	mg/l	1	07/24/13 11:45	HH	SM18 4500CO2D
Alkalinity, Total as CaCO3	230	5.0	0.60	mg/l	1	07/24/13 11:45	HH	SM19 2320B
Chloride	91.3	10	4.0	mg/l	5	07/19/13 23:19	AC	EPA 300/SW846 9056A
Fluoride	16.3	1.0	0.30	mg/l	5	07/30/13 16:37	AA	EPA 300/SW846 9056A
Nitrogen, Nitrate [a]	25.2	1.0	0.50	mg/l	10	07/23/13 12:00	AC	EPA 300/SW846 9056A
Phosphorus, Total	2.7	1.0	0.28	mg/l	10	07/22/13 10:10	LE	EPA 365.3
Solids, Total Dissolved	1850	100	10	mg/l	1	07/25/13 14:50	KC	SM19 2540C
Specific Conductivity	1940	1.0	1.0	umhos/cm	1	07/19/13 14:30	AA	EPA 120.1
Sulfate	597	20	6.0	mg/l	10	07/23/13 12:00	AC	EPA 300/SW846 9056A
pH [b]	6.68			su	1	07/19/13 14:45	HH	SM 4500H B/SW 9040C

(a) Originally ran in hold. Re-ran at dilution beyond hold time.
(b) Field analysis required. Received out of hold time and analyzed by request.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	NW9		
Lab Sample ID:	FA6569-2F	**Date Sampled:**	07/18/13
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/19/13
		Percent Solids:	n/a
Project:	Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Phosphate, Ortho	8.3	2.5	0.48	mg/l	25	07/19/13 11:00	LE	EPA 365.3

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: A-27-135
Lab Sample ID: FA6569-3
Matrix: AQ - Ground Water
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

Date Sampled: 07/18/13
Date Received: 07/19/13
Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	0.0967 J	0.20	0.015	mg/l	1	07/26/13	07/29/13	LM	SW846 6010C [1]	SW846 3010A [3]
Antimony	0.0015 J	0.0060	0.0013	mg/l	1	07/26/13	07/29/13	LM	SW846 6010C [1]	SW846 3010A [3]
Arsenic	0.0494	0.010	0.0025	mg/l	1	07/26/13	07/29/13	LM	SW846 6010C [1]	SW846 3010A [3]
Cadmium	0.0010 J	0.0050	0.00050	mg/l	1	07/26/13	07/29/13	LM	SW846 6010C [1]	SW846 3010A [3]
Calcium	399	1.0	0.050	mg/l	1	07/26/13	07/29/13	LM	SW846 6010C [1]	SW846 3010A [3]
Chromium	0.0020 U	0.010	0.0020	mg/l	1	07/26/13	07/29/13	LM	SW846 6010C [1]	SW846 3010A [3]
Iron	0.0613 J	0.30	0.029	mg/l	1	07/26/13	07/29/13	LM	SW846 6010C [1]	SW846 3010A [3]
Magnesium	199	5.0	0.074	mg/l	1	07/26/13	07/29/13	LM	SW846 6010C [1]	SW846 3010A [3]
Potassium	35.2	10	0.20	mg/l	1	07/26/13	07/29/13	LM	SW846 6010C [1]	SW846 3010A [3]
Selenium	0.0546	0.010	0.0020	mg/l	1	07/26/13	07/29/13	LM	SW846 6010C [1]	SW846 3010A [3]
Sodium	434	100	5.0	mg/l	10	07/26/13	07/30/13	LM	SW846 6010C [2]	SW846 3010A [3]

(1) Instrument QC Batch: MA10932
(2) Instrument QC Batch: MA10935
(3) Prep QC Batch: MP25566

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: A-27-135
Lab Sample ID: FA6569-3
Matrix: AQ - Ground Water
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

Date Sampled: 07/18/13
Date Received: 07/19/13
Percent Solids: n/a

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Alkalinity, Bicarbonate as CaC	892	5.0	5.0	mg/l	1	07/27/13 11:50	HH	SM18 4500CO2D
Alkalinity, Carbonate	5.0 U	5.0	5.0	mg/l	1	07/27/13 11:50	HH	SM18 4500CO2D
Alkalinity, Total as CaCO3	892	25	3.0	mg/l	1	07/27/13 11:50	HH	SM19 2320B
Chloride	71.7	50	20	mg/l	25	07/19/13 22:48	AC	EPA 300/SW846 9056A
Fluoride [a]	1.5 U	5.0	1.5	mg/l	25	07/30/13 16:54	AA	EPA 300/SW846 9056A
Nitrogen, Nitrate	43.2	2.5	1.3	mg/l	25	07/19/13 22:48	AC	EPA 300/SW846 9056A
Phosphorus, Total	108	50	14	mg/l	500	07/22/13 10:10	LE	EPA 365.3
Solids, Total Dissolved	2770	500	50	mg/l	5	07/25/13 14:50	KC	SM19 2540C
Specific Conductivity	4630	1.0	1.0	umhos/cm	1	07/19/13 14:30	AA	EPA 120.1
Sulfate	1660	50	15	mg/l	25	07/19/13 22:48	AC	EPA 300/SW846 9056A
pH [b]	6.44			su	1	07/19/13 14:45	HH	SM 4500H B/SW 9040C

(a) Dilution required due to matrix interference.
(b) Field analysis required. Received out of hold time and analyzed by request.

RL = Reporting Limit
MDL = Method Detection Limit
U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	A-27-135		
Lab Sample ID:	FA6569-3F	**Date Sampled:**	07/18/13
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/19/13
		Percent Solids:	n/a
Project:	Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Phosphate, Ortho	58.7	20	3.8	mg/l	200	07/19/13 11:00	LE	EPA 365.3

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: A-27-090
Lab Sample ID: FA6569-4
Matrix: AQ - Ground Water
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

Date Sampled: 07/18/13
Date Received: 07/19/13
Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	0.0667 J	0.20	0.015	mg/l	1	07/26/13	07/29/13	LM	SW846 6010C [1]	SW846 3010A [3]
Antimony	0.0013 U	0.0060	0.0013	mg/l	1	07/26/13	07/29/13	LM	SW846 6010C [1]	SW846 3010A [3]
Arsenic	0.0235	0.010	0.0025	mg/l	1	07/26/13	07/29/13	LM	SW846 6010C [1]	SW846 3010A [3]
Cadmium	0.00050 U	0.0050	0.00050	mg/l	1	07/26/13	07/29/13	LM	SW846 6010C [1]	SW846 3010A [3]
Calcium	365	1.0	0.050	mg/l	1	07/26/13	07/29/13	LM	SW846 6010C [1]	SW846 3010A [3]
Chromium	0.0020 U	0.010	0.0020	mg/l	1	07/26/13	07/29/13	LM	SW846 6010C [1]	SW846 3010A [3]
Iron	0.0532 J	0.30	0.029	mg/l	1	07/26/13	07/29/13	LM	SW846 6010C [1]	SW846 3010A [3]
Magnesium	204	5.0	0.074	mg/l	1	07/26/13	07/29/13	LM	SW846 6010C [1]	SW846 3010A [3]
Potassium	44.7	10	0.20	mg/l	1	07/26/13	07/29/13	LM	SW846 6010C [1]	SW846 3010A [3]
Selenium	0.0455	0.010	0.0020	mg/l	1	07/26/13	07/29/13	LM	SW846 6010C [1]	SW846 3010A [3]
Sodium	257	100	5.0	mg/l	10	07/26/13	07/30/13	LM	SW846 6010C [2]	SW846 3010A [3]

(1) Instrument QC Batch: MA10932
(2) Instrument QC Batch: MA10935
(3) Prep QC Batch: MP25566

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: A-27-090
Lab Sample ID: FA6569-4
Matrix: AQ - Ground Water
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

Date Sampled: 07/18/13
Date Received: 07/19/13
Percent Solids: n/a

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Alkalinity, Bicarbonate as CaC	664	5.0	5.0	mg/l	1	07/27/13 11:50	HH	SM18 4500CO2D
Alkalinity, Carbonate	5.0 U	5.0	5.0	mg/l	1	07/27/13 11:50	HH	SM18 4500CO2D
Alkalinity, Total as CaCO3	664	25	3.0	mg/l	1	07/27/13 11:50	HH	SM19 2320B
Chloride [a]	43.3 J	50	20	mg/l	25	07/20/13 09:40	AC	EPA 300/SW846 9056A
Fluoride [a]	1.5 U	5.0	1.5	mg/l	25	07/30/13 17:11	AA	EPA 300/SW846 9056A
Nitrogen, Nitrate	76.9	2.5	1.3	mg/l	25	07/20/13 09:40	AC	EPA 300/SW846 9056A
Phosphorus, Total	106	50	14	mg/l	500	07/22/13 10:10	LE	EPA 365.3
Solids, Total Dissolved	4150	500	50	mg/l	5	07/25/13 14:50	KC	SM19 2540C
Specific Conductivity	4450	1.0	1.0	umhos/cm	1	07/19/13 14:30	AA	EPA 120.1
Sulfate	1630	50	15	mg/l	25	07/20/13 09:40	AC	EPA 300/SW846 9056A
pH [b]	6.40			su	1	07/19/13 14:45	HH	SM 4500H B/SW 9040C

(a) Dilution required due to matrix interference.
(b) Field analysis required. Received out of hold time and analyzed by request.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	A-27-090		
Lab Sample ID:	FA6569-4F	**Date Sampled:**	07/18/13
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/19/13
		Percent Solids:	n/a
Project:	Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Phosphate, Ortho	55.0	20	3.8	mg/l	200	07/19/13 11:00	LE	EPA 365.3

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Southeast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

Accutest Laboratories Southeast
Chain of Custody

ACCUTEST LABORATORIES

4405 Vineland Road, Suite C-15 · Orlando, Fl 32811
TEL. 407-425-6700 • FAX: 407-425-0707
www.accutest.com

Accutest JOB # FA6569 PAGE 1 OF 1

Accutest Quote # | SKIFF#

Client / Reporting Information

Company Name: WSP ENV & ENG
Address: 205 W. Park St.
City: JACKSON State: MO Zip: 63755
Project Contact: TIM HUFF E-mail: TIM.HUFF@WSPGROUP.COM
Phone#: 571-217-6759
Sampler(s) Name(s) (Printed): TYSON PATTIE TAYLOR PATTIE

Project Information

Project Name: AGRIUM
Street:
City: State:
Project #:
Fax #:
Client Purchase Order #:

Analytical Information

SEE ATTACHED

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL - Sludge
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe

Accutest Sample #	Field ID / Point of Collection	COLLECTION DATE	TIME	SAMPLED BY:	MATRIX	TOTAL # OF BOTTLES	CONTAINER INFORMATION OTHER	NONE	HCl	NaOH	H2SO4	HNO3+ZnAc	DI WATER	MeOH	LAB USE ONLY
1	A-34-022	8/7/13	0930	TRP	GW	4		X			X	X			X
2	NW9	8/7/13	1100	TRP	GW	4		X			X	X			X
3	A-27-135	8/8/13	0955	TP	GW	4		X			X	X			X
4	A-27-090	8/8/13	1130	TP	GW	4		X			X	X			X

TURNAROUND TIME (Business Days)

Approved By: / Rush Code

- [X] 10 Days Standard
- [ ] 7 Day RUSH
- [ ] 5 Day RUSH
- [ ] 3 Day EMERGENCY
- [ ] 2 Day EMERGENCY
- [ ] 1 Day EMERGENCY
- [ ] OTHER

Emergency or Rush T/A Data Available VIA Email or Lablink

Data Deliverable Information

- [ ] COMMERCIAL "A" (RESULTS ONLY)
- [ ] COMMERCIAL "B" (RESULTS PLUS QC)
- [ ] REDT1 (EPA LEVEL 3)
- [ ] FULT1 (EPA LEVEL 4)
- [ ] EDD'S

Comments / Remarks

Sample Custody must be documented below each time samples change possession, including courier delivery.

	Relinquished by Sampler:	Date Time:	Received By:	Relinquished by:	Date Time:	Received By:
1		08/8/13 1215	2 FX	3 FX	8-19-13	4 Courier (A184) 10:00
5	Relinquished by:	Date Time:	6 Received By:	7 Relinquished by:	Date Time:	8 Received By:

Lab Use Only: Custody Seal in Place: Y N Temp Blank Provided: Y N Preserved where Applicable: Y N Total # of Coolers: 1 Cooler Temperature (s) Celsius: 2.8

FA6569: Chain of Custody
Page 1 of 3

O-Phos - Field Filtered

Note: A-34-022 High Phosphate

Analyte List #2 (groundwater samples and groundwater sampling equipment blanks)

- total dissolved solids (TDS)
- Total metals - aluminum, antimony, arsenic, cadmium, calcium, chromium, iron, magnesium, potassium, selenium, and sodium
- chloride, fluoride, nitrate as N, and sulfate
- pH
- total phosphorous
- dissolved orthophosphate
- bicarbonate and carbonate alkalinity as $CaCO_3$
- specific conductance

NOTE – If turbidity at the time of [illegible]
submit to lab

FA6569: Chain of Custody
Page 2 of 3

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: FA 6569 CLIENT: WSP PROJECT: AGRIUM

DATE/TIME RECEIVED: 7-19-13 10:00 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 1

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 8017 3146 6902

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET
- [ ] WET ICE PRESENT

TRIP BLANK INFORMATION

- [ ] TRIP BLANK PROVIDED
- [X] TRIP BLANK NOT PROVIDED
- [X] TRIP BLANK NOT ON COC
- [ ] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [ ] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM _____ 5-GRAM _____

NUMBER OF 5035 FIELD KITS ? _____

NUMBER OF LAB FILTERED METALS ? _____

TEMPERATURE INFORMATION

- [ ] IR THERM ID 3 CORR. FACTOR +0.1
- [ ] OBSERVED TEMPS: 2.4
- [ ] CORRECTED TEMPS: 2.8

SAMPLE INFORMATION

- [ ] SAMPLE LABELS PRESENT ON ALL BOTTLES
- [ ] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] 5035 FIELD KIT FROZEN WITHIN 48 HOUR'S
- [ ] RESIDUAL CHLORINE PRESENT

(APPICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS)

SUMMARY OF COMMENTS: _____

TECHNICIAN SIGNATURE/DATE AP 7-19-13 REVIEWER SIGNATURE/DATE 07/19/13

NF 12/10 receipt confirmation 122910.xls

5.1 5

FA6569: Chain of Custody

Page 3 of 3

Southeast ACCUTEST LABORATORIES

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Instrument Runlogs
- Initial and Continuing Calibration Blanks
- Initial and Continuing Calibration Checks
- High and Low Check Standards
- Interfering Element Check Standards
- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA6569
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA072913M1.ICP Date Analyzed: 07/29/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10932
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
07:59	MA10932-STD1	1		STDA
08:03	MA10932-STD2	1		STDB
08:07	MA10932-STD3	1		STDC
08:10	MA10932-STD4	1		STDD
08:15	MA10932-HSTD1	1		
08:23	MA10932-ICV1	1		
08:28	MA10932-ICB1	1		
08:32	MA10932-CRIA1	1		
09:18	MA10932-ICSA1	1		
09:25	MA10932-ICSAB1	1		
09:29	MA10932-CCV1	1		
09:34	MA10932-CCB1	1		
09:39	MP25566-MB1	1		
09:43	MP25566-B1	1		
09:48	FA6731-2	1		(sample used for QC only; not part of login FA6569)
09:52	MP25566-D1	1		
09:56	MP25566-SD1	5		
10:01	MP25566-PS1	1		
10:05	MP25566-S1	1		
10:09	MP25566-S2	1		
10:14	ZZZZZZ	1		
10:18	ZZZZZZ	1		
10:23	MA10932-CCV2	1		
10:27	MA10932-CCB2	1		
10:31	ZZZZZZ	1		
10:36	ZZZZZZ	1		
10:41	ZZZZZZ	1		
10:45	ZZZZZZ	1		
10:55	FA6569-2	1		
10:59	FA6569-3	1		
11:04	FA6569-4	1		
11:08	ZZZZZZ	1		
11:13	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA6569
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA072913M1.ICP Date Analyzed: 07/29/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10932
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
11:18	MA10932-CCV3	1		
11:22	MA10932-CCB3	1		
11:27	ZZZZZZ	1		
11:31	ZZZZZZ	1		
11:36	ZZZZZZ	1		
11:41	ZZZZZZ	1		
11:45	ZZZZZZ	1		
11:50	ZZZZZZ	1		
11:54	ZZZZZZ	1		
11:59	MP25566-MB2	1		
---------->	Last reportable sample/prep for job FA6569			
12:03	MP25572-MB1	1		
12:08	MP25572-B1	1		
12:12	MA10932-CCV4	1		
12:16	MA10932-CCB4	1		
12:21	MP25572-B2	1		
12:25	MP25572-B3	1		
12:30	FA6353-1L	1		(sample used for QC only; not part of login FA6569)
12:35	MP25572-D1	1		
12:44	MP25574-MB1	1		
12:48	MP25574-B1	1		
12:53	FA6794-2	1		(sample used for QC only; not part of login FA6569)
12:57	MP25574-D1	1		
13:02	MP25574-SD1	5		
13:06	MP25574-PS1	1		
13:10	MA10932-CCV5	1		
13:15	MA10932-CCB5	1		
13:19	MP25574-S1	1		
13:23	MP25574-S2	1		
13:28	ZZZZZZ	1		
13:32	ZZZZZZ	1		
13:37	ZZZZZZ	1		
13:41	ZZZZZZ	1		
13:46	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA6569
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA072913M1.ICP Date Analyzed: 07/29/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10932
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
13:50	ZZZZZZ	1		
13:55	ZZZZZZ	1		
13:59	ZZZZZZ	1		
14:04	MA10932-CCV6	1		
14:08	MA10932-CCB6	1		
14:13	ZZZZZZ	1		
14:17	ZZZZZZ	1		
14:31	ZZZZZZ	1		
14:36	ZZZZZZ	1		
14:40	ZZZZZZ	1		
14:45	ZZZZZZ	1		
14:49	ZZZZZZ	1		
14:54	ZZZZZZ	1		
14:58	MA10932-CCV7	1		
15:03	MA10932-CCB7	1		
15:07	MP25574-MB2A	1		
15:12	MP25571-MB1	1		
15:16	MP25571-B1	1		
15:21	FA6743-1	1		(sample used for QC only; not part of login FA6569)
15:25	MP25571-D1	1		
15:30	MP25571-SD1	5		
15:34	MP25571-S1	1		
15:39	MP25571-S2	1		
15:43	ZZZZZZ	1		
15:48	ZZZZZZ	1		
15:52	MA10932-CCV8	1		
15:57	MA10932-CCB8	1		
16:01	MP25576-MB1	1		
16:06	MP25576-B1	1		
16:10	JB42532-2R	1		(sample used for QC only; not part of login FA6569)
16:14	MP25576-D1	1		
16:19	MP25576-SD1	5		
16:24	MP25576-S1	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA6569
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA072913M1.ICP Date Analyzed: 07/29/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10932
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
16:28	MP25576-S2	1		
16:32	MP25576-MB2	1		
16:37	MP25576-B2	1		
16:41	MA10932-CRIA2	1		
16:45	MA10932-CCV9	1		
16:50	MA10932-CCB9	1		
16:54	MA10932-ICSA2	1		
16:59	MA10932-ICSAB2	1		
17:03	MA10932-CCV10	1		
17:08	MA10932-CCB10	1		

----------> Last reportable CCB for job FA6569
Refer to raw data for calibration curve and standards.

INTERNAL STANDARD SUMMARY

Login Number: FA6569
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA072913M1.ICP Date Analyzed: 07/29/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10932
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
07:59	MA10932-STD1	2119	20871	4203	1106
08:03	MA10932-STD2	2084	20447	4189	1039
08:07	MA10932-STD3	1998	19644	4135	940
08:10	MA10932-STD4	1925	19122	4113	869
08:15	MA10932-HSTD1	1928	19155	4111	872
08:23	MA10932-ICV1	2008	19722	4177	950
08:28	MA10932-ICB1	2148 R	21143 R	4292 R	1131 R
08:32	MA10932-CRIA1	2112	20736	4271	1087
09:18	MA10932-ICSA1	1829	17824	3982	810
09:25	MA10932-ICSAB1	1831	17871	3989	805
09:29	MA10932-CCV1	2007	19843	4164	941
09:34	MA10932-CCB1	2131	21126	4234	1118
09:39	MP25566-MB1	2140	21447	4315	1124
09:43	MP25566-B1	2074	20347	4248	1006
09:48	FA6731-2	2620	24589	5889	708
09:52	MP25566-D1	2624	24638	5882	706
09:56	MP25566-SD1	2149	20319	4559	860
10:01	MP25566-PS1	2614	24553	5831 !	710
10:05	MP25566-S1	2602	24498	5843	703
10:09	MP25566-S2	2621	24714	5862	702
10:14	ZZZZZZ	2139	21379	4336	1118
10:18	ZZZZZZ	2118	21214	4310	1098
10:23	MA10932-CCV2	2015	20101	4180	945
10:27	MA10932-CCB2	2142	21384	4226	1120
10:31	ZZZZZZ	2137	21486	4271	1114
10:36	ZZZZZZ	2124	21294	4302	1104
10:41	ZZZZZZ	1953	19398	4125	948
10:45	ZZZZZZ	2085	20587	4281	988
10:55	FA6569-2	1912	19069	4089	912
10:59	FA6569-3	1800	17726	3968	806
11:04	FA6569-4	1827	18003	3987	832
11:08	ZZZZZZ	1792	17843	3942	822
11:13	ZZZZZZ	1770	17686	3903	826

INTERNAL STANDARD SUMMARY

Login Number: FA6569
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA072913M1.ICP Date Analyzed: 07/29/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10932
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
11:18	MA10932-CCV3	2019	19940	4166	946
11:22	MA10932-CCB3	2146	21222	4252	1124
11:27	ZZZZZZ	1898	18799	4127	794
11:31	ZZZZZZ	2133	21410	4298	1123
11:36	ZZZZZZ	2080	20599	4232	1050
11:41	ZZZZZZ	2078	20663	4252	1048
11:45	ZZZZZZ	2076	20664	4236	1048
11:50	ZZZZZZ	2147	21459	4293	1130
11:54	ZZZZZZ	2081	20658	4238	1051
11:59	MP25566-MB2	2146	21513	4301	1132
12:03	MP25572-MB1	1934	19664	3953	1071
12:08	MP25572-B1	1965	20144	4025	1069
12:12	MA10932-CCV4	2033	20301	4244	959
12:16	MA10932-CCB4	2144	21434	4224	1127
12:21	MP25572-B2	1978	20265	4087	1094
12:25	MP25572-B3	2000	20537	4082	1109
12:30	FA6353-1L	1996	20391	4073	1097
12:35	MP25572-D1	2001	20491	4073	1102
12:44	MP25574-MB1	2134	21589	4255	1129
12:48	MP25574-B1	2041	20404	4213	1001
12:53	FA6794-2	2100	21040	4239	1085
12:57	MP25574-D1	2082	21002	4232	1073
13:02	MP25574-SD1	2112	21095	4205	1103
13:06	MP25574-PS1	2074	20727	4224	1036
13:10	MA10932-CCV5	1990	19831	4122	936
13:15	MA10932-CCB5	2126	21195	4206	1114
13:19	MP25574-S1	2063	20457	4258	983
13:23	MP25574-S2	2058	20450	4243	982
13:28	ZZZZZZ	1957	19759	4159	974
13:32	ZZZZZZ	2104	21198	4272	1094
13:37	ZZZZZZ	2084	20870	4259	1080
13:41	ZZZZZZ	2061	20571	4235	1048
13:46	ZZZZZZ	2110	21048	4230	1121

INTERNAL STANDARD SUMMARY

Login Number: FA6569
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA072913M1.ICP Date Analyzed: 07/29/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10932
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
13:50	ZZZZZZ	2103	21012	4222	1119
13:55	ZZZZZZ	2107	21081	4216	1119
13:59	ZZZZZZ	2121	21264	4277	1127
14:04	MA10932-CCV6	1991	19669	4112	939
14:08	MA10932-CCB6	2123	20962	4208	1116
14:13	ZZZZZZ	2115	21255	4264	1126
14:17	ZZZZZZ	2118	21232	4259	1126
14:31	ZZZZZZ	1803	17994	3960	840
14:36	ZZZZZZ	1832	18340	3980	874
14:40	ZZZZZZ	1815	18183	3971	871
14:45	ZZZZZZ	1925	19240	4095	958
14:49	ZZZZZZ	2045	20432	4243	1029
14:54	ZZZZZZ	2027	20338	4207	1031
14:58	MA10932-CCV7	1992	19585	4113	940
15:03	MA10932-CCB7	2114	20895	4201	1114
15:07	MP25574-MB2A	2124	21117	4274	1128
15:12	MP25571-MB1	2129	20834	4207	1120
15:16	MP25571-B1	2045	20010	4206	1003
15:21	FA6743-1	1993	19202	4151	952
15:25	MP25571-D1	1995	19270	4180	955
15:30	MP25571-SD1	2101	20231	4197	1056
15:34	MP25571-S1	1975	18961	4127	907
15:39	MP25571-S2	1988	19015	4139	917
15:43	ZZZZZZ	2050	19634	4187	1002
15:48	ZZZZZZ	2032	19590	4200	988
15:52	MA10932-CCV8	2018	19624	4182	956
15:57	MA10932-CCB8	2141	20850	4228	1127
16:01	MP25576-MB1	2151	21153	4285	1143
16:06	MP25576-B1	2045	19900	4224	1009
16:10	JB42532-2R	2093	20483	4286	1073
16:14	MP25576-D1	2090	20326	4245	1072
16:19	MP25576-SD1	2125	20698	4253	1117
16:24	MP25576-S1	2045	19759	4263	993

INTERNAL STANDARD SUMMARY

Login Number: FA6569
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA072913M1.ICP Date Analyzed: 07/29/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10932
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
16:28	MP25576-S2	2032	19750	4284	990
16:32	MP25576-MB2	2103	20774	4292	1129
16:37	MP25576-B2	2045	19932	4261	1008
16:41	MA10932-CRIA2	2098	20264	4233	1086
16:45	MA10932-CCV9	2003	19434	4177	952
16:50	MA10932-CCB9	2120	20678	4279	1129
16:54	MA10932-ICSA2	1821	17572	3964	821
16:59	MA10932-ICSAB2	1828	17581	3983	813
17:03	MA10932-CCV10	2015	19529	4180	952
17:08	MA10932-CCB10	2127	20704	4242	1125

R = Reference for ISTD limits. ! = Outside limits.

LEGEND:

Istd#	Parameter	Limits
Istd#1	Yttrium (2243)	60-125 %
Istd#2	Yttrium (3600)	60-125 %
Istd#3	Yttrium (3710)	60-125 %
Istd#4	Indium	60-125 %

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: FA6569
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA072913M1.ICP Date Analyzed: 07/29/13 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA10932 Units: ug/l

Time:			08:28		09:34		10:27		11:22	
Sample ID:			ICB1		CCB1		CCB2		CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	15	6.0	<200	6.4	<200	4.3	<200	-3.5	<200
Antimony	6.0	1.3	-0.10	<6.0	0.20	<6.0	-0.40	<6.0	0.0	<6.0
Arsenic	10	1.6	0.90	<10	2.4	<10	2.6	<10	1.9	<10
Barium	200	1	anr							
Beryllium	4.0	.5	anr							
Cadmium	5.0	.5	0.0	<5.0	0.10	<5.0	0.10	<5.0	0.10	<5.0
Calcium	1000	50	1.9	<1000	8.6	<1000	7.9	<1000	19.0	<1000
Chromium	10	1.8	0.20	<10	-0.20	<10	0.0	<10	-0.10	<10
Cobalt	50	.5	anr							
Copper	25	1	anr							
Iron	300	29	5.3	<300	15.2	<300	14.0	<300	14.2	<300
Lead	5.0	1.1	anr							
Magnesium	5000	74	-50	<5000	-1.5	<5000	-5.9	<5000	5.1	<5000
Manganese	15	.7	anr							
Molybdenum	50	.6								
Nickel	40	.5	anr							
Potassium	10000	200	7.9	<10000	8.4	<10000	96.0	<10000	80.3	<10000
Selenium	10	2	0.30	<10	1.2	<10	0.80	<10	-0.60	<10
Silver	10	.5	anr							
Sodium	10000	500	8.3	<10000	10.3	<10000	352	<10000	256	<10000
Strontium	10	.5								
Thallium	10	1.3	anr							
Tin	50	.7								
Titanium	10	.9								
Vanadium	50	.5	anr							
Zinc	20	3	anr							

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: FA6569
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA072913M1.ICP Date Analyzed: 07/29/13 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA10932 Units: ug/l

Time: / Sample ID:			12:16 CCB4		13:15 CCB5		14:08 CCB6		15:03 CCB7	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	15	-4.7	<200	-1.3	<200	-1.6	<200	0.30	<200
Antimony	6.0	1.3	-0.20	<6.0	-1.2	<6.0	-1.3	<6.0	-0.30	<6.0
Arsenic	10	1.6	1.9	<10	1.3	<10	2.4	<10	2.0	<10
Barium	200	1	anr							
Beryllium	4.0	.5	anr							
Cadmium	5.0	.5	0.10	<5.0	0.0	<5.0	0.10	<5.0	0.0	<5.0
Calcium	1000	50	3.3	<1000	3.3	<1000	6.1	<1000	7.3	<1000
Chromium	10	1.8	0.0	<10	0.0	<10	0.0	<10	0.20	<10
Cobalt	50	.5	anr							
Copper	25	1	anr							
Iron	300	29	5.2	<300	12.1	<300	11.5	<300	11.4	<300
Lead	5.0	1.1	anr							
Magnesium	5000	74	-19	<5000	-20	<5000	-15	<5000	10.2	<5000
Manganese	15	.7	anr							
Molybdenum	50	.6								
Nickel	40	.5	anr							
Potassium	10000	200	33.5	<10000	6.6	<10000	9.8	<10000	26.3	<10000
Selenium	10	2	1.3	<10	-0.60	<10	0.0	<10	-1.3	<10
Silver	10	.5	anr							
Sodium	10000	500	102	<10000	72.7	<10000	51.0	<10000	56.9	<10000
Strontium	10	.5								
Thallium	10	1.3	anr							
Tin	50	.7								
Titanium	10	.9								
Vanadium	50	.5	anr							
Zinc	20	3	anr							

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: FA6569
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA072913M1.ICP Date Analyzed: 07/29/13 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA10932 Units: ug/l

Time: / Sample ID:			15:57 CCB8		16:50 CCB9		17:08 CCB10	
Metal	RL	IDL	raw	final	raw	final	raw	final
Aluminum	200	15	5.1	<200	0.40	<200	15.8	<200
Antimony	6.0	1.3	-1.7	<6.0	-1.1	<6.0	-1.0	<6.0
Arsenic	10	1.6	2.9	<10	1.6	<10	2.1	<10
Barium	200	1	anr					
Beryllium	4.0	.5	anr					
Cadmium	5.0	.5	0.20	<5.0	0.20	<5.0	0.10	<5.0
Calcium	1000	50	12.4	<1000	5.4	<1000	18.5	<1000
Chromium	10	1.8	0.30	<10	0.20	<10	0.0	<10
Cobalt	50	.5	anr					
Copper	25	1	anr					
Iron	300	29	12.4	<300	12.0	<300	20.6	<300
Lead	5.0	1.1	anr					
Magnesium	5000	74	7.7	<5000	12.2	<5000	-31	<5000
Manganese	15	.7	anr					
Molybdenum	50	.6						
Nickel	40	.5	anr					
Potassium	10000	200	13.7	<10000	0.60	<10000	6.2	<10000
Selenium	10	2	0.40	<10	-0.60	<10	0.80	<10
Silver	10	.5	anr					
Sodium	10000	500	93.1	<10000	52.4	<10000	45.9	<10000
Strontium	10	.5						
Thallium	10	1.3	anr					
Tin	50	.7						
Titanium	10	.9						
Vanadium	50	.5	anr					
Zinc	20	3	anr					

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA6569
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA072913M1.ICP Date Analyzed: 07/29/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA10932 Units: ug/l

Time:		08:23			09:29			10:23	
Sample ID:	ICV	ICV1		CCV	CCV1		CCV	CCV2	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	39400	98.5	40000	40200	100.5	40000	39800	99.5
Antimony	2000	2000	100.0	2000	1980	99.0	2000	1980	99.0
Arsenic	2000	1980	99.0	2000	1980	99.0	2000	1970	98.5
Barium	anr								
Beryllium	anr								
Cadmium	2000	2010	100.5	2000	2000	100.0	2000	2000	100.0
Calcium	40000	40900	102.3	40000	41100	102.8	40000	40700	101.8
Chromium	2000	2030	101.5	2000	2030	101.5	2000	1980	99.0
Cobalt	anr								
Copper	anr								
Iron	40000	40300	100.8	40000	41400	103.5	40000	40600	101.5
Lead	anr								
Magnesium	40000	38900	97.3	40000	40500	101.3	40000	39400	98.5
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium	40000	40200	100.5	40000	39700	99.3	40000	39400	98.5
Selenium	2000	2010	100.5	2000	2020	101.0	2000	2030	101.5
Silver	anr								
Sodium	40000	40200	100.5	40000	39600	99.0	40000	38300	95.8
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium	anr								
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA6569
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA072913M1.ICP Date Analyzed: 07/29/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA10932 Units: ug/l

Time:		11:18			12:12			13:10	
Sample ID:	CCV	CCV3		CCV	CCV4		CCV	CCV5	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	39700	99.3	40000	39600	99.0	40000	40100	100.3
Antimony	2000	1980	99.0	2000	2000	100.0	2000	2010	100.5
Arsenic	2000	1970	98.5	2000	1980	99.0	2000	2000	100.0
Barium	anr								
Beryllium	anr								
Cadmium	2000	2000	100.0	2000	2000	100.0	2000	2020	101.0
Calcium	40000	40500	101.3	40000	40000	100.0	40000	40300	100.8
Chromium	2000	2010	100.5	2000	1990	99.5	2000	2010	100.5
Cobalt	anr								
Copper	anr								
Iron	40000	39900	99.8	40000	39500	98.8	40000	39900	99.8
Lead	anr								
Magnesium	40000	39400	98.5	40000	38800	97.0	40000	38700	96.8
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium	40000	39400	98.5	40000	39800	99.5	40000	40100	100.3
Selenium	2000	2010	100.5	2000	2030	101.5	2000	2050	102.5
Silver	anr								
Sodium	40000	38600	96.5	40000	39500	98.8	40000	39900	99.8
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium	anr								
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA6569
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA072913M1.ICP Date Analyzed: 07/29/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA10932 Units: ug/l

Time:		14:04			14:58			15:52	
Sample ID:	CCV	CCV6		CCV	CCV7		CCV	CCV8	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	40000	100.0	40000	40300	100.8	40000	39100	97.8
Antimony	2000	2020	101.0	2000	2020	101.0	2000	2010	100.5
Arsenic	2000	2010	100.5	2000	2010	100.5	2000	2010	100.5
Barium	anr								
Beryllium	anr								
Cadmium	2000	2040	102.0	2000	2040	102.0	2000	2060	103.0
Calcium	40000	40700	101.8	40000	40500	101.3	40000	40700	101.8
Chromium	2000	2030	101.5	2000	2040	102.0	2000	2020	101.0
Cobalt	anr								
Copper	anr								
Iron	40000	39800	99.5	40000	39600	99.0	40000	38500	96.3
Lead	anr								
Magnesium	40000	39500	98.8	40000	39400	98.5	40000	38800	97.0
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium	40000	40200	100.5	40000	40200	100.5	40000	39400	98.5
Selenium	2000	2030	101.5	2000	2020	101.0	2000	1990	99.5
Silver	anr								
Sodium	40000	40000	100.0	40000	40100	100.3	40000	39300	98.3
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium	anr								
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA6569
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA072913M1.ICP Date Analyzed: 07/29/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA10932 Units: ug/l

Time:		16:45			17:03	
Sample ID:	CCV	CCV9		CCV	CCV10	
Metal	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	39300	98.3	40000	39500	98.8
Antimony	2000	2020	101.0	2000	2010	100.5
Arsenic	2000	2030	101.5	2000	2020	101.0
Barium	anr					
Beryllium	anr					
Cadmium	2000	2060	103.0	2000	2050	102.5
Calcium	40000	40300	100.8	40000	40300	100.8
Chromium	2000	2040	102.0	2000	2050	102.5
Cobalt	anr					
Copper	anr					
Iron	40000	38200	95.5	40000	38400	96.0
Lead	anr					
Magnesium	40000	38900	97.3	40000	38800	97.0
Manganese	anr					
Molybdenum						
Nickel	anr					
Potassium	40000	39600	99.0	40000	39700	99.3
Selenium	2000	1960	98.0	2000	1970	98.5
Silver	anr					
Sodium	40000	39700	99.3	40000	39800	99.5
Strontium						
Thallium	anr					
Tin						
Titanium						
Vanadium	anr					
Zinc	anr					

(*) Outside of QC limits
(anr) Analyte not requested

HIGH STANDARD CHECK SUMMARY

Login Number: FA6569
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA072913M1.ICP Date Analyzed: 07/29/13 Methods: SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA10932 Units: ug/l

Time:		08:15	
Sample ID:	HSTD	HSTD1	
Metal	True	Results	% Rec
Aluminum	80000	79500	99.4
Antimony	4000	4040	101.0
Arsenic	4000	4030	100.8
Barium	anr		
Beryllium	anr		
Cadmium	4000	3970	99.3
Calcium	80000	79300	99.1
Chromium	4000	3960	99.0
Cobalt	anr		
Copper	anr		
Iron	80000	78600	98.3
Lead	anr		
Magnesium	80000	79800	99.8
Manganese	anr		
Molybdenum			
Nickel	anr		
Potassium	80000	80000	100.0
Selenium	4000	4010	100.3
Silver	anr		
Sodium	80000	79900	99.9
Strontium			
Thallium	anr		
Tin			
Titanium			
Vanadium	anr		
Zinc	anr		

(*) Outside of QC limits
(anr) Analyte not requested

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: FA6569
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA072913M1.ICP Date Analyzed: 07/29/13 Methods: SW846 6010C
QC Limits: CRI 70-130% CRIA 70-130% Run ID: MA10932 Units: ug/l

Time:			08:32		16:41	
Sample ID:	CRI	CRIA	CRIA1		CRIA2	
Metal	True	True	Results	% Rec	Results	% Rec
Aluminum	400	200	203	101.5	204	102.0
Antimony	10	5.0	4.9	98.0	4.8	96.0
Arsenic	20	10	11.9	119.0	12.7	127.0
Barium	400	200	anr			
Beryllium	10	5.0	anr			
Cadmium	10	5.0	5.2	104.0	5.1	102.0
Calcium	2000	1000	1120	112.0	1040	104.0
Chromium	20	10	9.8	98.0	10.2	102.0
Cobalt	100	50	anr			
Copper	50	25	anr			
Iron	600	300	313	104.3	310	103.3
Lead	10	5.0	anr			
Magnesium	10000	5000	4900	98.0	4790	95.8
Manganese	30	15	anr			
Molybdenum	100	50				
Nickel	80	40	anr			
Potassium	20000	10000	9720	97.2	9820	98.2
Selenium	20	10	9.8	98.0	8.6	86.0
Silver	20	10	anr			
Sodium	20000	10000	9710	97.1	9900	99.0
Strontium	20	10				
Thallium	20	10	anr			
Tin	100	50				
Titanium	20	10				
Vanadium	100	50	anr			
Zinc	40	20	anr			

(*) Outside of QC limits
(anr) Analyte not requested

INTERFERING ELEMENT CHECK STANDARDS SUMMARY
Part 1 - ICSA and ICSAB Standards

Login Number: FA6569
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA072913M1.ICP Date Analyzed: 07/29/13 Methods: SW846 6010C
QC Limits: 80 to 120 % Recovery Run ID: MA10932 Units: ug/l

Time:			09:18		09:25		16:54		16:59	
Sample ID:	ICSA	ICSAB	ICSA1		ICSAB1		ICSA2		ICSAB2	
Metal	True	True	Results	% Rec	Results	% Rec	Results	% Rec	Results	% Rec
Aluminum	500000	500000	507000	101.4	510000	102.0	501000	100.2	495000	99.0
Antimony		1000	0.0		999	99.9	-1.8		1020	102.0
Arsenic		1000	0.0		1010	101.0	1.8		1030	103.0
Barium		500	0.0		520	104.0	0.20		517	103.4
Beryllium		500	-0.20		499	99.8	-0.30		487	97.4
Cadmium		1000	0.0		901	90.1	2.0		923	92.3
Calcium	500000	500000	482000	96.4	485000	97.0	476000	95.2	473000	94.6
Chromium		500	0.0		476	95.2	-0.50		475	95.0
Cobalt		500	1.4		456	91.2	1.1		453	90.6
Copper		500	0.50		535	107.0	-1.3		539	107.8
Iron	200000	200000	187000	93.5	185000	92.5	174000	87.0	170000	85.0
Lead		1000	0.0		919	91.9	-0.70		926	92.6
Magnesium	500000	500000	510000	102.0	510000	102.0	490000	98.0	486000	97.2
Manganese		500	0.0		481	96.2	0.0		496	99.2
Molybdenum		1000	0.70		944	94.4	1.0		931	93.1
Nickel		1000	0.10		893	89.3	0.20		903	90.3
Potassium			22.1		3.5		6.4		19.3	
Selenium		1000	1.5		974	97.4	2.1		961	96.1
Silver		1000	0.60		995	99.5	0.60		1000	100.0
Sodium			103		83.4		187		176	
Strontium		1000	11.8		1020	102.0	11.8		1010	101.0
Thallium		1000	0.0		920	92.0	2.8		919	91.9
Tin		1000	4.3		909	90.9	4.8		914	91.4
Titanium		1000	-2.1		976	97.6	-2.0		1010	101.0
Vanadium		500	-0.90		473	94.6	-0.10		485	97.0
Zinc		1000	4.2		919	91.9	4.6		927	92.7

(*) Outside of QC limits
(anr) Analyte not requested

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA6569
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA073013M1.ICP Date Analyzed: 07/30/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10935
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
07:58	MA10935-STD1	1		STDA
08:03	MA10935-STD2	1		STDB
08:06	MA10935-STD3	1		STDC
08:10	MA10935-STD4	1		STDD
08:14	MA10935-HSTD1	1		
08:20	MA10935-ICV1	1		
08:27	MA10935-ICB1	1		
08:31	MA10935-CRIA1	1		
08:40	MA10935-ICSA1	1		
08:47	MA10935-ICSAB1	1		
08:54	MA10935-CCV1	1		
09:03	MA10935-CCB1	1		
09:09	MP25578-MB1	1		
09:13	MP25578-B1	1		
09:18	FA6726-15	1		(sample used for QC only; not part of login FA6569)
09:22	MP25578-D1	1		
09:27	MP25578-SD1	5		
09:33	MP25578-PS1	1		
09:37	MP25578-S1	1		
09:41	MP25578-S2	1		
09:46	ZZZZZZ	1		
09:50	ZZZZZZ	1		
09:55	MA10935-CCV2	1		
09:59	MA10935-CCB2	1		
10:03	ZZZZZZ	1		
10:08	ZZZZZZ	1		
10:12	ZZZZZZ	1		
10:17	ZZZZZZ	1		
10:21	ZZZZZZ	1		
10:26	ZZZZZZ	1		
10:30	ZZZZZZ	1		
10:35	ZZZZZZ	1		
10:39	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA6569
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA073013M1.ICP Date Analyzed: 07/30/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10935
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
10:44	ZZZZZZ	1		
10:48	MA10935-CCV3	1		
10:52	MA10935-CCB3	1		
10:57	ZZZZZZ	1		
11:01	ZZZZZZ	1		
11:06	ZZZZZZ	1		
11:10	ZZZZZZ	1		
11:15	ZZZZZZ	1		
11:19	ZZZZZZ	1		
11:24	ZZZZZZ	1		
11:28	MP25577-MB1	1		
11:33	MP25577-B1	1		
11:37	FA6808-1	1		(sample used for QC only; not part of login FA6569)
11:41	MA10935-CCV4	1		
11:45	MA10935-CCB4	1		
11:50	MP25577-D1	1		
11:54	MP25577-SD1	5		
11:59	MP25577-PS1	1		
12:03	MP25577-S1	1		
12:07	MP25577-S2	1		
12:12	ZZZZZZ	1		
12:16	ZZZZZZ	1		
12:21	ZZZZZZ	1		
12:25	ZZZZZZ	1		
12:30	ZZZZZZ	1		
12:34	MA10935-CCV5	1		
12:38	MA10935-CCB5	1		
12:43	ZZZZZZ	5		
12:47	ZZZZZZ	5		
12:52	ZZZZZZ	1		
12:56	ZZZZZZ	1		
13:01	ZZZZZZ	1		
13:05	MP25583-MB1	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA6569
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA073013M1.ICP Date Analyzed: 07/30/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10935
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
13:10	MP25583-B1	1		
13:14	FA6717-6	1		(sample used for QC only; not part of login FA6569)
13:18	MP25583-D1	1		
13:23	MP25583-SD1	5		
13:28	MA10935-CCV6	1		
13:32	MA10935-CCB6	1		
13:42	MP25583-S1	1		
13:47	MP25583-S2	1		
13:51	FA6731-1	1		(sample used for QC only; not part of login FA6569)
13:56	ZZZZZZ	1		
14:00	MP25583-MB2	1		
14:05	MP25583-B2	1		
14:10	MP25583-D2	1		
14:14	ZZZZZZ	1		
14:19	ZZZZZZ	1		
14:23	ZZZZZZ	1		
14:33	MA10935-CCV7	1		
14:39	MA10935-CCB7	1		
15:03	MA10935-CCV8	1		
15:08	MA10935-CCB8	1		
15:12	ZZZZZZ	1		
15:17	ZZZZZZ	1		
15:22	ZZZZZZ	1		
15:26	ZZZZZZ	1		
15:30	ZZZZZZ	1		
15:39	FA6740-1	5		(sample used for QC only; not part of login FA6569)
15:44	MP25579-D1	5		
15:48	MP25579-S1	5		
15:53	MP25579-S2	5		
15:57	MA10935-CCV9	1		
16:01	MA10935-CCB9	1		
16:06	MP25579-PS1	5		
16:10	MP25579-SD1	25		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA6569
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA073013M1.ICP Date Analyzed: 07/30/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10935
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
16:15	ZZZZZZ	5		
16:19	ZZZZZZ	25		
16:23	ZZZZZZ	5		
16:28	ZZZZZZ	10		
16:32	ZZZZZZ	4		
16:37	ZZZZZZ	5		
16:41	ZZZZZZ	4		
16:45	ZZZZZZ	4		
16:50	MA10935-CCV10	1		
16:54	MA10935-CCB10	1		
16:58	ZZZZZZ	5		
17:03	ZZZZZZ	4		
17:07	FA6731-2	200		(sample used for QC only; not part of login FA6569)
17:12	MP25566-D1	200		
17:17	MP25566-S1	200		
17:21	MP25566-S2	200		
17:26	MP25566-PS1	200		
17:30	MP25566-SD1	1000		
17:35	FA6569-1	5		
17:39	FA6569-3	10		
17:44	MA10935-CCV11	1		
17:48	MA10935-CCB11	1		
17:53	FA6569-4	10		
---------->	Last reportable sample/prep for job FA6569			
17:57	ZZZZZZ	5		
18:02	ZZZZZZ	5		
18:06	ZZZZZZ	5		
18:11	ZZZZZZ	2		
18:15	ZZZZZZ	4		
18:20	ZZZZZZ	5		
18:24	MA10935-CRIA2	1		
18:29	MA10935-ICSA2	1		
18:33	MA10935-ICSAB2	1		
18:38	MA10935-CCV12	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA6569
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA073013M1.ICP Date Analyzed: 07/30/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10935
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
18:42	MA10935-CCB12	1		
---------->	Last reportable CCB for job FA6569			
18:47	MA10935-CCV13	1		
18:51	MA10935-CCB13	1		

Refer to raw data for calibration curve and standards.

INTERNAL STANDARD SUMMARY

Login Number: FA6569
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA073013M1.ICP Date Analyzed: 07/30/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10935
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
07:58	MA10935-STD1	1901	21158	5867	1062
08:03	MA10935-STD2	1860	20586	5828	985
08:06	MA10935-STD3	1769	19617	5720	880
08:10	MA10935-STD4	1691	19039	5631	806
08:14	MA10935-HSTD1	1690	18979	5645	803
08:20	MA10935-ICV1	1765	19587	5720	877
08:27	MA10935-ICB1	1895 R	21217 R	5791 R	1055 R
08:31	MA10935-CRIA1	1874	20747	5776	1011
08:40	MA10935-ICSA1	1597	17456	5326	752
08:47	MA10935-ICSAB1	1598	17448	5305	745
08:54	MA10935-CCV1	1774	19643	5724	877
09:03	MA10935-CCB1	1895	21154	5811	1053
09:09	MP25578-MB1	1873	20995	5734	1049
09:13	MP25578-B1	1795	19719	5637	920
09:18	FA6726-15	1890	20835	5817	1008
09:22	MP25578-D1	1898	20929	5815	1013
09:27	MP25578-SD1	1921	21227	5843	1052
09:33	MP25578-PS1	1854	20256	5748	964
09:37	MP25578-S1	1788	19510	5661	898
09:41	MP25578-S2	1791	19539	5683	910
09:46	ZZZZZZ	1815	19898	5866	862
09:50	ZZZZZZ	1885	20728	5772	1024
09:55	MA10935-CCV2	1813	19830	5769	894
09:59	MA10935-CCB2	1926	21106	5858	1067
10:03	ZZZZZZ	1915	20991	5968	958
10:08	ZZZZZZ	1911	20910	5784	1046
10:12	ZZZZZZ	1927	21148	5824	1053
10:17	ZZZZZZ	1920	21108	5977	996
10:21	ZZZZZZ	1924	21079	5799	1060
10:26	ZZZZZZ	1953	21161	5871	1054
10:30	ZZZZZZ	1928	21018	5846	1052
10:35	ZZZZZZ	1910	20890	5777	1055
10:39	ZZZZZZ	1885	20412	5755	1006

INTERNAL STANDARD SUMMARY

Login Number: FA6569
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA073013M1.ICP Date Analyzed: 07/30/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10935
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
10:44	ZZZZZZ	1902	20698	5771	1036
10:48	MA10935-CCV3	1828	19800	5811	903
10:52	MA10935-CCB3	1933	20960	5836	1069
10:57	ZZZZZZ	1906	20708	5772	1037
11:01	ZZZZZZ	1903	20852	5704	1057
11:06	ZZZZZZ	1897	20681	5751	1035
11:10	ZZZZZZ	1909	20765	5749	1050
11:15	ZZZZZZ	1884	20165	5943	884
11:19	ZZZZZZ	1892	20397	5817	985
11:24	ZZZZZZ	1952	21173	5897	1041
11:28	MP25577-MB1	1907	20810	5755	1061
11:33	MP25577-B1	1806	19454	5661	925
11:37	FA6808-1	1951	20728	6189	876
11:41	MA10935-CCV4	1828	19660	5784	902
11:45	MA10935-CCB4	1933	20922	5865	1071
11:50	MP25577-D1	1986	21206	6099	980
11:54	MP25577-SD1	1922	20524	5887	994
11:59	MP25577-PS1	1936	20499	6099	867
12:03	MP25577-S1	1882	20080	5912	911
12:07	MP25577-S2	1885	20036	5890	918
12:12	ZZZZZZ	1989	21101	6067	995
12:16	ZZZZZZ	1996	21243	6164	973
12:21	ZZZZZZ	1987	21181	6086	994
12:25	ZZZZZZ	2020	21655	6181	1010
12:30	ZZZZZZ	2577 !	27766 !	7823 !	1018
12:34	MA10935-CCV5	1835	19675	5814	905
12:38	MA10935-CCB5	1948	20898	5839	1078
12:43	ZZZZZZ	2009	21583	6468	859
12:47	ZZZZZZ	2297	24648	7246	918
12:52	ZZZZZZ	1869	19997	5728	983
12:56	ZZZZZZ	1867	20080	5793	957
13:01	ZZZZZZ	2023	21288	6207	944
13:05	MP25583-MB1	1964	21216	6050	1112

INTERNAL STANDARD SUMMARY

Login Number: FA6569
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA073013M1.ICP Date Analyzed: 07/30/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10935
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
13:10	MP25583-B1	1859	19931	5889	955
13:14	FA6717-6	1800	19189	5820	923
13:18	MP25583-D1	1797	19181	5832	924
13:23	MP25583-SD1	1856	19939	5773	997
13:28	MA10935-CCV6	1790	19389	5719	886
13:32	MA10935-CCB6	1920	20721	5801	1071
13:42	MP25583-S1	1783	19032	5806	877
13:47	MP25583-S2	1789	18961	5786	881
13:51	FA6731-1	1796	19033	5827	924
13:56	ZZZZZZ	1782	18917	5815	920
14:00	MP25583-MB2	1783	18912	5813	921
14:05	MP25583-B2	1782	18861	5822	878
14:10	MP25583-D2	1779	18863	5817	921
14:14	ZZZZZZ	1763	18815	5620	926
14:19	ZZZZZZ	1860	19957	5748	1008
14:23	ZZZZZZ	1771	19023	5812	828
14:33	MA10935-CCV7	1792	19313	5720	888
14:39	MA10935-CCB7	1919	20616	5845	1065
15:03	MA10935-CCV8	1783	19271	5751	883
15:08	MA10935-CCB8	1914	20618	5824	1064
15:12	ZZZZZZ	1747	18652	5668	830
15:17	ZZZZZZ	1887	20374	5766	1038
15:22	ZZZZZZ	1919	20675	5888	1034
15:26	ZZZZZZ	1916	20634	5862	1037
15:30	ZZZZZZ	1898	20351	5836	1031
15:39	FA6740-1	2093	22174	6569	964
15:44	MP25579-D1	2061	21807	6462	966
15:48	MP25579-S1	2119	22412	6679	950
15:53	MP25579-S2	2106	22229	6665	946
15:57	MA10935-CCV9	1796	19306	5841	895
16:01	MA10935-CCB9	1914	20670	5872	1071
16:06	MP25579-PS1	2052	21869	6495	953
16:10	MP25579-SD1	1955	20784	6014	1029

INTERNAL STANDARD SUMMARY

Login Number: FA6569
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA073013M1.ICP Date Analyzed: 07/30/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10935
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
16:15	ZZZZZZ	2066	21943	6526	955
16:19	ZZZZZZ	2190	23337	6698	1060
16:23	ZZZZZZ	1988	21105	6356	926
16:28	ZZZZZZ	2062	21870	6417	1009
16:32	ZZZZZZ	2036	21509	6411	953
16:37	ZZZZZZ	1937	20528	6096	962
16:41	ZZZZZZ	2039	21576	6473	925
16:45	ZZZZZZ	2050	21579	6435	949
16:50	MA10935-CCV10	1806	19264	5797	902
16:54	MA10935-CCB10	1927	20522	5874	1078
16:58	ZZZZZZ	1915	20229	6064	941
17:03	ZZZZZZ	1808	19480	5826	991
17:07	FA6731-2	1891	20167	5896	1025
17:12	MP25566-D1	1900	20144	5865	1024
17:17	MP25566-S1	1900	20111	5860	1026
17:21	MP25566-S2	1905	20091	5847	1027
17:26	MP25566-PS1	1885	20046	5864	1021
17:30	MP25566-SD1	1909	20464	5859	1058
17:35	FA6569-1	1969	20859	6390	829
17:39	FA6569-3	1833	19344	5746	957
17:44	MA10935-CCV11	1806	19171	5796	897
17:48	MA10935-CCB11	1924	20455	5867	1070
17:53	FA6569-4	1845	19532	5798	974
17:57	ZZZZZZ	1736	18710	5691	896
18:02	ZZZZZZ	1748	18800	5639	911
18:06	ZZZZZZ	1762	18839	5682	891
18:11	ZZZZZZ	1744	18956	5710	919
18:15	ZZZZZZ	1828	19588	5781	980
18:20	ZZZZZZ	1778	19032	5682	925
18:24	MA10935-CRIA2	1885	20172	5836	1024
18:29	MA10935-ICSA2	1590	16865	5381	757
18:33	MA10935-ICSAB2	1578	16876	5359	744
18:38	MA10935-CCV12	1783	19171	5751	889

INTERNAL STANDARD SUMMARY

Login Number: FA6569
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA073013M1.ICP Date Analyzed: 07/30/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10935
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
18:42	MA10935-CCB12	1909	20545	5817	1068
18:47	MA10935-CCV13	1788	19186	5758	893
18:51	MA10935-CCB13	1906	20518	5824	1067

R = Reference for ISTD limits. ! = Outside limits.

LEGEND:

Istd#	Parameter	Limits
Istd#1	Yttrium (2243)	60-125 %
Istd#2	Yttrium (3600)	60-125 %
Istd#3	Yttrium (3710)	60-125 %
Istd#4	Indium	60-125 %

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: FA6569
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA073013M1.ICP Date Analyzed: 07/30/13 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA10935 Units: ug/l

Time: / Sample ID:			08:27 ICB1		09:03 CCB1		09:59 CCB2		10:52 CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	15	3.0	<200	9.4	<200	4.8	<200	3.7	<200
Antimony	6.0	1.3	-0.10	<6.0	-0.80	<6.0	0.40	<20	-0.50	<20
Arsenic	10	1.6	-0.30	<10	-0.60	<10	0.40	<10	0.70	<10
Barium	200	1	anr							
Beryllium	4.0	.5	anr							
Cadmium	4.0	.5	0.10	<5.0	0.20	<5.0	0.20	<4.0	0.20	<4.0
Calcium	1000	50	2.8	<1000	14.7	<1000	10.6	<5000	9.1	<5000
Chromium	10	1.8	0.10	<10	-0.10	<10	0.30	<10	0.20	<10
Cobalt	50	.5	anr							
Copper	25	1	anr							
Iron	300	29	1.3	<300	5.5	<300	11.1	<300	10.0	<300
Lead	5.0	1.1	anr							
Magnesium	5000	74	-0.60	<5000	10.5	<5000	-13	<5000	5.0	<5000
Manganese	15	.7	anr							
Molybdenum	50	.6	anr							
Nickel	40	.5	anr							
Potassium	10000	200	-3.5	<10000	-16	<10000	-22	<10000	-26	<10000
Selenium	10	2	0.0	<10	1.1	<10	-0.10	<20	-1.3	<20
Silver	10	.5	anr							
Sodium	10000	500	3.6	<10000	7.8	<10000	6.0	<10000	5.5	<10000
Strontium	10	.5	anr							
Thallium	10	1.3	anr							
Tin	50	.7	anr							
Titanium	10	.9								
Vanadium	50	.5	anr							
Zinc	20	3	anr							

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: FA6569
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA073013M1.ICP Date Analyzed: 07/30/13 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA10935 Units: ug/l

Time: / Sample ID:			11:45 CCB4		12:38 CCB5		13:32 CCB6		14:39 CCB7	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	15	6.3	<200	7.2	<200	6.5	<200	-1.5	<200
Antimony	6.0	1.3	-0.40	<20	-0.90	<20	1.0	<20	0.20	<20
Arsenic	10	1.6	-0.20	<10	0.80	<10	-0.80	<10	0.90	<10
Barium	200	1	anr							
Beryllium	4.0	.5	anr							
Cadmium	4.0	.5	0.20	<4.0	0.10	<4.0	0.10	<4.0	0.30	<4.0
Calcium	1000	50	12.5	<5000	10.6	<5000	11.3	<5000	8.4	<5000
Chromium	10	1.8	0.10	<10	0.20	<10	0.50	<10	0.70	<10
Cobalt	50	.5	anr							
Copper	25	1	anr							
Iron	300	29	10.3	<300	11.6	<300	12.9	<300	5.0	<300
Lead	5.0	1.1	anr							
Magnesium	5000	74	-2.6	<5000	11.0	<5000	15.8	<5000	-12	<5000
Manganese	15	.7	anr							
Molybdenum	50	.6								
Nickel	40	.5	anr							
Potassium	10000	200	-23	<10000	-31	<10000	-33	<10000	-9.0	<10000
Selenium	10	2	-0.80	<20	-0.40	<20	0.20	<20	0.10	<20
Silver	10	.5	anr							
Sodium	10000	500	9.9	<10000	7.7	<10000	20.2	<10000	18.2	<10000
Strontium	10	.5	anr							
Thallium	10	1.3	anr							
Tin	50	.7								
Titanium	10	.9								
Vanadium	50	.5	anr							
Zinc	20	3	anr							

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: FA6569
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA073013M1.ICP Date Analyzed: 07/30/13 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA10935 Units: ug/l

Time: / Sample ID:			15:08 CCB8		16:01 CCB9		16:54 CCB10		17:48 CCB11	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	15	5.2	<200	15.3	<200	10.8	<200	11.6	<200
Antimony	6.0	1.3	0.10	<20	0.60	<20	0.0	<20	-0.10	<20
Arsenic	10	1.6	1.1	<10	0.80	<10	0.60	<10	0.50	<10
Barium	200	1	anr							
Beryllium	4.0	.5	anr							
Cadmium	4.0	.5	0.30	<4.0	0.30	<4.0	0.20	<4.0	0.30	<4.0
Calcium	1000	50	4.4	<5000	13.0	<5000	13.1	<5000	7.5	<5000
Chromium	10	1.8	0.30	<10	0.30	<10	0.20	<10	0.30	<10
Cobalt	50	.5	anr							
Copper	25	1	anr							
Iron	300	29	15.6	<300	26.5	<300	26.1	<300	23.7	<300
Lead	5.0	1.1	anr							
Magnesium	5000	74	-15	<5000	2.7	<5000	12.8	<5000	-3.5	<5000
Manganese	15	.7	anr							
Molybdenum	50	.6								
Nickel	40	.5	anr							
Potassium	10000	200	2.6	<10000	16.5	<10000	9.4	<10000	-3.6	<10000
Selenium	10	2	0.50	<20	-0.50	<20	0.60	<20	1.3	<20
Silver	10	.5	anr							
Sodium	10000	500	7.7	<10000	3.9	<10000	1.5	<10000	8.0	<10000
Strontium	10	.5	anr							
Thallium	10	1.3	anr							
Tin	50	.7								
Titanium	10	.9								
Vanadium	50	.5	anr							
Zinc	20	3	anr							

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: FA6569
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA073013M1.ICP Date Analyzed: 07/30/13 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA10935 Units: ug/l

Time:			18:42	
Sample ID:			CCB12	
Metal	RL	IDL	raw	final
Aluminum	200	15	21.4	<200
Antimony	6.0	1.3	0.40	<20
Arsenic	10	1.6	0.40	<10
Barium	200	1	anr	
Beryllium	4.0	.5	anr	
Cadmium	4.0	.5	0.20	<4.0
Calcium	1000	50	23.6	<5000
Chromium	10	1.8	0.0	<10
Cobalt	50	.5	anr	
Copper	25	1	anr	
Iron	300	29	30.6	<300
Lead	5.0	1.1	anr	
Magnesium	5000	74	1.7	<5000
Manganese	15	.7	anr	
Molybdenum	50	.6		
Nickel	40	.5	anr	
Potassium	10000	200	0.60	<10000
Selenium	10	2	0.20	<20
Silver	10	.5	anr	
Sodium	10000	500	3.6	<10000
Strontium	10	.5	anr	
Thallium	10	1.3	anr	
Tin	50	.7		
Titanium	10	.9		
Vanadium	50	.5	anr	
Zinc	20	3	anr	

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA6569
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA073013M1.ICP Date Analyzed: 07/30/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA10935 Units: ug/l

Time:		08:20			08:54			09:55	
Sample ID:	ICV	ICV1		CCV	CCV1		CCV	CCV2	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	39600	99.0	40000	40100	100.3	40000	39500	98.8
Antimony	2000	1990	99.5	2000	1970	98.5	2000	1970	98.5
Arsenic	2000	1990	99.5	2000	1980	99.0	2000	1980	99.0
Barium	anr								
Beryllium	anr								
Cadmium	2000	2010	100.5	2000	2010	100.5	2000	2020	101.0
Calcium	40000	40900	102.3	40000	40500	101.3	40000	41500	103.8
Chromium	2000	2040	102.0	2000	2040	102.0	2000	2070	103.5
Cobalt	anr								
Copper	anr								
Iron	40000	40800	102.0	40000	40800	102.0	40000	40800	102.0
Lead	anr								
Magnesium	40000	39000	97.5	40000	39700	99.3	40000	40000	100.0
Manganese	anr								
Molybdenum	anr								
Nickel	anr								
Potassium	40000	40300	100.8	40000	40100	100.3	40000	39600	99.0
Selenium	2000	2000	100.0	2000	1980	99.0	2000	1960	98.0
Silver	anr								
Sodium	40000	40200	100.5	40000	40100	100.3	40000	39500	98.8
Strontium	anr								
Thallium	anr								
Tin	anr								
Titanium									
Vanadium	anr								
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA6569
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA073013M1.ICP Date Analyzed: 07/30/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA10935 Units: ug/l

Time:		10:48			11:41			12:34	
Sample ID:	CCV	CCV3		CCV	CCV4		CCV	CCV5	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	39000	97.5	40000	39000	97.5	40000	38800	97.0
Antimony	2000	1970	98.5	2000	1970	98.5	2000	1980	99.0
Arsenic	2000	1990	99.5	2000	1980	99.0	2000	2000	100.0
Barium	anr								
Beryllium	anr								
Cadmium	2000	2040	102.0	2000	2040	102.0	2000	2050	102.5
Calcium	40000	41800	104.5	40000	41900	104.8	40000	41800	104.5
Chromium	2000	2090	104.5	2000	2090	104.5	2000	2100	105.0
Cobalt	anr								
Copper	anr								
Iron	40000	40400	101.0	40000	40300	100.8	40000	40100	100.3
Lead	anr								
Magnesium	40000	40200	100.5	40000	40100	100.3	40000	39900	99.8
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium	40000	39200	98.0	40000	39300	98.3	40000	39200	98.0
Selenium	2000	1940	97.0	2000	1940	97.0	2000	1930	96.5
Silver	anr								
Sodium	40000	39300	98.3	40000	39200	98.0	40000	39200	98.0
Strontium	anr								
Thallium	anr								
Tin									
Titanium									
Vanadium	anr								
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA6569
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA073013M1.ICP Date Analyzed: 07/30/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA10935 Units: ug/l

Time:		13:28			14:33			15:03	
Sample ID:	CCV	CCV6		CCV	CCV7		CCV	CCV8	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	39000	97.5	40000	39400	98.5	40000	39300	98.3
Antimony	2000	2000	100.0	2000	2010	100.5	2000	1960	98.0
Arsenic	2000	2020	101.0	2000	2030	101.5	2000	1970	98.5
Barium	anr								
Beryllium	anr								
Cadmium	2000	2060	103.0	2000	2080	104.0	2000	1990	99.5
Calcium	40000	41600	104.0	40000	42000	105.0	40000	40100	100.3
Chromium	2000	2080	104.0	2000	2090	104.5	2000	1980	99.0
Cobalt	anr								
Copper	anr								
Iron	40000	40000	100.0	40000	40400	101.0	40000	40200	100.5
Lead	anr								
Magnesium	40000	39800	99.5	40000	40300	100.8	40000	39800	99.5
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium	40000	39500	98.8	40000	39800	99.5	40000	39500	98.8
Selenium	2000	1960	98.0	2000	1960	98.0	2000	1990	99.5
Silver	anr								
Sodium	40000	39600	99.0	40000	39900	99.8	40000	39500	98.8
Strontium	anr								
Thallium	anr								
Tin									
Titanium									
Vanadium	anr								
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA6569
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA073013M1.ICP Date Analyzed: 07/30/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA10935 Units: ug/l

Time:		15:57			16:50			17:44	
Sample ID:	CCV	CCV9		CCV	CCV10		CCV	CCV11	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	38800	97.0	40000	39100	97.8	40000	39500	98.8
Antimony	2000	1970	98.5	2000	1970	98.5	2000	1960	98.0
Arsenic	2000	1980	99.0	2000	1970	98.5	2000	1970	98.5
Barium	anr								
Beryllium	anr								
Cadmium	2000	2010	100.5	2000	2010	100.5	2000	2000	100.0
Calcium	40000	40200	100.5	40000	40500	101.3	40000	40200	100.5
Chromium	2000	1980	99.0	2000	2010	100.5	2000	2030	101.5
Cobalt	anr								
Copper	anr								
Iron	40000	39800	99.5	40000	39900	99.8	40000	40000	100.0
Lead	anr								
Magnesium	40000	39700	99.3	40000	39400	98.5	40000	39000	97.5
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium	40000	39200	98.0	40000	39500	98.8	40000	39700	99.3
Selenium	2000	1960	98.0	2000	1940	97.0	2000	1940	97.0
Silver	anr								
Sodium	40000	39300	98.3	40000	39400	98.5	40000	39600	99.0
Strontium	anr								
Thallium	anr								
Tin									
Titanium									
Vanadium	anr								
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA6569
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA073013M1.ICP Date Analyzed: 07/30/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA10935 Units: ug/l

Time:		18:38	
Sample ID:	CCV	CCV12	
Metal	True	Results	% Rec
Aluminum	40000	39500	98.8
Antimony	2000	1970	98.5
Arsenic	2000	1980	99.0
Barium	anr		
Beryllium	anr		
Cadmium	2000	2010	100.5
Calcium	40000	40300	100.8
Chromium	2000	2010	100.5
Cobalt	anr		
Copper	anr		
Iron	40000	40000	100.0
Lead	anr		
Magnesium	40000	39400	98.5
Manganese	anr		
Molybdenum			
Nickel	anr		
Potassium	40000	39800	99.5
Selenium	2000	1970	98.5
Silver	anr		
Sodium	40000	39700	99.3
Strontium	anr		
Thallium	anr		
Tin			
Titanium			
Vanadium	anr		
Zinc	anr		

(*) Outside of QC limits
(anr) Analyte not requested

HIGH STANDARD CHECK SUMMARY

Login Number: FA6569
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA073013M1.ICP Date Analyzed: 07/30/13 Methods: SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA10935 Units: ug/l

Time:		08:14	
Sample ID:	HSTD	HSTD1	
Metal	True	Results	% Rec
Aluminum	80000	80300	100.4
Antimony	4000	4040	101.0
Arsenic	4000	4040	101.0
Barium	anr		
Beryllium	anr		
Cadmium	4000	3980	99.5
Calcium	80000	79300	99.1
Chromium	4000	3990	99.8
Cobalt	anr		
Copper	anr		
Iron	80000	79000	98.8
Lead	anr		
Magnesium	80000	79800	99.8
Manganese	anr		
Molybdenum	anr		
Nickel	anr		
Potassium	80000	80400	100.5
Selenium	4000	4020	100.5
Silver	anr		
Sodium	80000	80100	100.1
Strontium	anr		
Thallium	anr		
Tin	anr		
Titanium			
Vanadium	anr		
Zinc	anr		

(*) Outside of QC limits
(anr) Analyte not requested

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: FA6569
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA073013M1.ICP Date Analyzed: 07/30/13 Methods: SW846 6010C
QC Limits: CRI 70-130% CRIA 70-130% Run ID: MA10935 Units: ug/l

Time:			08:31		18:24	
Sample ID:	CRI	CRIA	CRIA1		CRIA2	
Metal	True	True	Results	% Rec	Results	% Rec
Aluminum	400	200	204	102.0	204	102.0
Antimony	10	5.0	4.7	94.0	4.4	88.0
Arsenic	20	10	9.1	91.0	10.7	107.0
Barium	400	200	anr			
Beryllium	10	5.0	anr			
Cadmium	10	5.0	5.2	104.0	5.1	102.0
Calcium	2000	1000	1050	105.0	1040	104.0
Chromium	20	10	10.5	105.0	10.3	103.0
Cobalt	100	50	anr			
Copper	50	25	anr			
Iron	600	300	313	104.3	321	107.0
Lead	10	5.0	anr			
Magnesium	10000	5000	4830	96.6	4860	97.2
Manganese	30	15	anr			
Molybdenum	100	50	anr			
Nickel	80	40	anr			
Potassium	20000	10000	9640	96.4	9770	97.7
Selenium	20	10	9.6	96.0	10.6	106.0
Silver	20	10	anr			
Sodium	20000	10000	9720	97.2	9790	97.9
Strontium	20	10	anr			
Thallium	20	10	anr			
Tin	100	50	anr			
Titanium	20	10				
Vanadium	100	50	anr			
Zinc	40	20	anr			

(*) Outside of QC limits
(anr) Analyte not requested

INTERFERING ELEMENT CHECK STANDARDS SUMMARY
Part 1 - ICSA and ICSAB Standards

Login Number: FA6569
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA073013M1.ICP Date Analyzed: 07/30/13 Methods: SW846 6010C
QC Limits: 80 to 120 % Recovery Run ID: MA10935 Units: ug/l

Time:			08:40		08:47		18:29		18:33	
Sample ID:	ICSA	ICSAB	ICSA1		ICSAB1		ICSA2		ICSAB2	
Metal	True	True	Results	% Rec	Results	% Rec	Results	% Rec	Results	% Rec
Aluminum	500000	500000	510000	102.0	512000	102.4	506000	101.2	506000	101.2
Antimony		1000	0.0		1010	101.0	3.3		1030	103.0
Arsenic		1000	0.60		1020	102.0	-0.90		1040	104.0
Barium		500	0.10		518	103.6	0.30		520	104.0
Beryllium		500	-0.10		504	100.8	-0.10		498	99.6
Cadmium		1000	0.0		911	91.1	-0.70		921	92.1
Calcium	500000	500000	493000	98.6	492000	98.4	485000	97.0	483000	96.6
Chromium		500	0.20		482	96.4	-0.30		476	95.2
Cobalt		500	1.4		455	91.0	1.4		458	91.6
Copper		500	0.0		536	107.2	0.0		547	109.4
Iron	200000	200000	188000	94.0	185000	92.5	183000	91.5	181000	90.5
Lead		1000	0.90		919	91.9	1.0		920	92.0
Magnesium	500000	500000	514000	102.8	512000	102.4	508000	101.6	505000	101.0
Manganese		500	0.50		492	98.4	0.20		492	98.4
Molybdenum		1000	0.60		941	94.1	1.1		947	94.7
Nickel		1000	0.20		892	89.2	0.30		905	90.5
Potassium			-33		-32		-16		2.9	
Selenium		1000	0.40		969	96.9	2.7		973	97.3
Silver		1000	0.20		1020	102.0	0.40		1010	101.0
Sodium			92.0		70.1		105		89.3	
Strontium		1000	12.0		1030	103.0	12.0		1030	103.0
Thallium		1000	0.0		902	90.2	-2.7		909	90.9
Tin		1000	4.9		909	90.9	5.2		918	91.8
Titanium		1000	-2.0		991	99.1	-1.2		1000	100.0
Vanadium		500	-0.60		483	96.6	0.40		484	96.8
Zinc		1000	4.6		927	92.7	4.7		929	92.9

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: FA6569
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

QC Batch ID: MP25566
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date:				07/26/13		07/26/13	
Metal	RL	IDL	MDL	MB raw	final	MB raw	final
Aluminum	200	15	15	4.0	<200	4.2	<200
Antimony	6.0	1.3	1.3	-1.0	<6.0	-1.5	<6.0
Arsenic	10	1.6	2.5	0.70	<10	0.90	<10
Barium	200	1	1				
Beryllium	4.0	.5	.5				
Cadmium	5.0	.5	.5	-0.10	<5.0	-0.20	<5.0
Calcium	1000	50	50	20.6	<1000	19.5	<1000
Chromium	10	1.8	2	-0.20	<10	-0.20	<10
Cobalt	50	.5	.5				
Copper	25	1	1				
Iron	300	29	29	30.8	<300	-4.9	<300
Lead	5.0	1.1	1.1				
Magnesium	5000	74	74	-15	<5000	-22	<5000
Manganese	15	.7	.7				
Molybdenum	50	.6	1				
Nickel	40	.5	.5				
Potassium	10000	200	200	-0.80	<10000	32.2	<10000
Selenium	10	2	2	1.5	<10	-0.70	<10
Silver	10	.5	.5				
Sodium	10000	500	500	200	<10000	141	<10000
Strontium	10	.5	.5				
Thallium	10	1.3	1.3				
Tin	50	.7	1.8				
Titanium	10	.9	1				
Vanadium	50	.5	1				
Zinc	20	3	5				

Associated samples MP25566: FA6569-1, FA6569-2, FA6569-3, FA6569-4

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FA6569
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

QC Batch ID: MP25566
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date:			07/26/13					07/26/13	
Metal	FA6731-2 Original	DUP	RPD	QC Limits	FA6731-2 Original	MS	Spikelot MPFLICP1	% Rec	QC Limits
Aluminum	40700	41400	1.7	0-20	40700	58300	27000	65.2N(b)	80-120
Antimony	0.00	0.0	NC	0-20	0.00	330	500	66.0N(b)	80-120
Arsenic	36.2	37.0	2.2	0-20	36.2	1540	2000	75.2N(b)	80-120
Barium	anr								
Beryllium									
Cadmium	0.0	23.3	1.7	0-20	0.0	53.5	50	59.6N(b)	80-120
Calcium	97600	97900	0.3	0-20	97600	111000	25000	53.6N(b)	80-120
Chromium	688	457	0.9	0-20	688	568	200	57.5N(b)	80-120
Cobalt									
Copper	anr								
Iron	509000	289000	0.0	0-20	509000	293000	26000	15.4 (c)	80-120
Lead	anr								
Magnesium	4700	4750	1.1	0-20	4700	19700	25000	60.0N(b)	80-120
Manganese	anr								
Molybdenum									
Nickel									
Potassium	15700	15600	0.6	0-20	15700	33900	25000	72.8N(b)	80-120
Selenium	4.4	5.7	25.7 (a)	0-20	4.4	1870	2000	93.3	80-120
Silver	anr								
Sodium	10000000004250000		4.1	0-20	10000000004120000		25000	160.0(c)	80-120
Strontium									
Thallium									
Tin									
Titanium									
Vanadium									
Zinc	anr								

Associated samples MP25566: FA6569-1, FA6569-2, FA6569-3, FA6569-4

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) RPD acceptable due to low duplicate and sample concentrations.
(b) Spike recovery indicates possible matrix interference.
(c) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FA6569
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

QC Batch ID: MP25566
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 07/26/13

Metal	FA6731-2 Original	MSD	Spikelot MPFLICP1	% Rec	MSD RPD	QC Limit
Aluminum	40700	58400	27000	65.6N(a)	0.2	20
Antimony	0.00	324	500	64.8N(a)	1.8	20
Arsenic	36.2	1510	2000	73.7N(a)	2.0	20
Barium	anr					
Beryllium						
Cadmium	0.0	53.4	50	59.4N(a)	0.2	20
Calcium	97600	112000	25000	57.6N(a)	0.9	20
Chromium	688	565	200	56.0N(a)	0.5	20
Cobalt						
Copper	anr					
Iron	509000	296000	26000	26.9 (b)	1.0	20
Lead	anr					
Magnesium	4700	19300	25000	58.4N(a)	2.1	20
Manganese	anr					
Molybdenum						
Nickel						
Potassium	15700	33600	25000	71.6N(a)	0.9	20
Selenium	4.4	1830	2000	91.3	2.2	20
Silver	anr					
Sodium	10000000004290000		25000	840.0(b)	4.0	20
Strontium						
Thallium						
Tin						
Titanium						
Vanadium						
Zinc	anr					

Associated samples MP25566: FA6569-1, FA6569-2, FA6569-3, FA6569-4

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) Spike recovery indicates possible matrix interference.
(b) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: FA6569
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

QC Batch ID: MP25566
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 07/26/13

Metal	BSP Result	Spikelot MPFLICP1	% Rec	QC Limits
Aluminum	27000	27000	100.0	80-120
Antimony	498	500	99.6	80-120
Arsenic	1970	2000	98.5	80-120
Barium	anr			
Beryllium				
Cadmium	49.6	50	99.2	80-120
Calcium	25600	25000	102.4	80-120
Chromium	210	200	105.0	80-120
Cobalt				
Copper	anr			
Iron	27300	26000	105.0	80-120
Lead	anr			
Magnesium	24500	25000	98.0	80-120
Manganese	anr			
Molybdenum				
Nickel				
Potassium	24700	25000	98.8	80-120
Selenium	1980	2000	99.0	80-120
Silver	anr			
Sodium	24900	25000	99.6	80-120
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc	anr			

Associated samples MP25566: FA6569-1, FA6569-2, FA6569-3, FA6569-4

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: FA6569
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

QC Batch ID: MP25566
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 07/26/13

Metal	FA6731-2 Original	SDL 1:5	%DIF	QC Limits
Aluminum	40700	54300	33.5*(a)	0-10
Antimony	0.00	0.00	NC	0-10
Arsenic	36.2	55.5	53.3 (b)	0-10
Barium	anr			
Beryllium				
Cadmium	0.00	21.1	11.0 (b)	0-10
Calcium	97600	138000	41.5*(a)	0-10
Chromium	688	668	47.3*(a)	0-10
Cobalt				
Copper	anr			
Iron	509000	439000	51.9*(a)	0-10
Lead	anr			
Magnesium	4700	6670	42.0*(a)	0-10
Manganese	anr			
Molybdenum				
Nickel				
Potassium	15700	19900	26.6*(a)	0-10
Selenium	4.40	19.5	343.2(b)	0-10
Silver	anr			
Sodium	10000000004650000		14.1 (b)	0-10
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc	anr			

Associated samples MP25566: FA6569-1, FA6569-2, FA6569-3, FA6569-4

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Serial dilution indicates possible matrix interference.
(b) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

POST DIGESTATE SPIKE SUMMARY

Login Number: FA6569
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

QC Batch ID: MP25566
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 07/26/13

Metal	Sample ml	Final ml	FA6731-2 Raw	Corr.**	PS ug/l	Spike ml	Spike ug/ml	Spike ug/l	% Rec	QC Limits
Aluminum	9.8	10	40710	39895.8	41630	0.2	125	2500	69.4*(a)	80-120
Antimony	9.8	10	0	0	60.3	0.2	5	100	60.3*(a)	80-120
Arsenic	9.8	10	36.2	35.476	111.5	0.2	5	100	76.0*(a)	80-120
Barium										
Beryllium										
Cadmium	9.8	10	0	23.226	53.1	0.2	2.5	50	59.7*(a)	80-120
Calcium	9.8	10	97550	95599	100300	0.2	250	5000	94.0	80-120
Chromium	9.8	10	688.2	444.332	477.7	0.2	2.5	50	66.7*(a)	80-120
Cobalt										
Copper										
Iron	9.8	10	509100	282926	285600	0.2	150	3000	89.1	80-120
Lead										
Magnesium	9.8	10	4701	4606.98	7669	0.2	250	5000	61.2*(a)	80-120
Manganese										
Molybdenum										
Nickel										
Potassium	9.8	10	15720	15405.6	22650	0.2	500	10000	72.4*(a)	80-120
Selenium	9.8	10	4.4	4.312	97.3	0.2	5	100	93.0	80-120
Silver										
Sodium	9.8	10	9999990003997420		4095000	0.2	500	10000	975.8*(a	80-120
Strontium										
Thallium										
Tin										
Titanium										
Vanadium										
Zinc										

Associated samples MP25566: FA6569-1, FA6569-2, FA6569-3, FA6569-4

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(**) Corr. sample result = Raw * (sample volume / final volume)
(anr) Analyte not requested
(a) Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

Southeast ACCUTEST LABORATORIES

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries
- Instrument Runlogs/QC

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: FA6569
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Alkalinity, Total as CaCO3	GN56937	5.0	2.4	mg/l	250	251	100.4	90-113%
Alkalinity, Total as CaCO3	GN57005	25	0.0	mg/l	250	243	97.2	90-113%
Chloride	GP22137/GN56897	2.0	0.0	mg/l	50	50.5	101.0	90-110%
Chloride	GP22141/GN56901	2.0	0.0	mg/l	50	50.4	100.8	90-110%
Fluoride	GP22198/GN57065	0.20	0.0	mg/l	2.5	2.63	105.2	90-110%
Nitrogen, Nitrate	GP22137/GN56897	0.10	0.0	mg/l	2.5	2.58	103.2	90-110%
Nitrogen, Nitrate	GP22141/GN56901	0.10	0.0	mg/l	2.5	2.57	102.8	90-110%
Nitrogen, Nitrite	GP22137/GN56897	0.10	0.0	mg/l	2.5	2.67	106.8	90-110%
Nitrogen, Nitrite	GP22141/GN56901	0.10	0.0	mg/l	2.5	2.63	105.2	90-110%
Phosphate, Ortho	GP22120/GN56869	0.10	0.0	mg/l	.300	0.31	104.0	83-116%
Phosphorus, Total	GP22139/GN56900	0.10	0.0	mg/l	.300	0.28	92.2	81-118%
Solids, Total Dissolved	GN56969	100	18.0	mg/l				
Specific Conductivity	GN56847	1.0	0.0	umhos/cm				
Sulfate	GP22137/GN56897	2.0	0.0	mg/l	50	51.2	102.4	90-110%
Sulfate	GP22141/GN56901	2.0	0.0	mg/l	50	51.2	102.4	90-110%

Associated Samples:
Batch GN56847: FA6569-1, FA6569-2, FA6569-3, FA6569-4
Batch GN56937: FA6569-1, FA6569-2
Batch GN56969: FA6569-1, FA6569-2, FA6569-3, FA6569-4
Batch GN57005: FA6569-3, FA6569-4
Batch GP22120: FA6569-1F, FA6569-2F, FA6569-3F, FA6569-4F
Batch GP22137: FA6569-1, FA6569-2, FA6569-3
Batch GP22139: FA6569-1, FA6569-2, FA6569-3, FA6569-4
Batch GP22141: FA6569-4
Batch GP22198: FA6569-1, FA6569-2, FA6569-3, FA6569-4
(*) Outside of QC limits

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: FA6569
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Alkalinity, Total as CaCO3	GN56937	FA6569-2	mg/l	230	230	0.0	0-20%
Alkalinity, Total as CaCO3	GN57005	FA6569-3	mg/l	892	893	0.1	0-20%
Solids, Total Dissolved	GN56969	FA6621-4	mg/l	1010	1000	1.0	0-5%
Specific Conductivity	GN56847	FA6569-1	umhos/cm	12900	12800	0.4	0-10%
pH	GN56841	FA6569-2	su	6.68	6.68	0.0	0-10%

Associated Samples:
Batch GN56841: FA6569-1, FA6569-2, FA6569-3, FA6569-4
Batch GN56847: FA6569-1, FA6569-2, FA6569-3, FA6569-4
Batch GN56937: FA6569-1, FA6569-2
Batch GN56969: FA6569-1, FA6569-2, FA6569-3, FA6569-4
Batch GN57005: FA6569-3, FA6569-4
(*) Outside of QC limits

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: FA6569
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Chloride	GP22137/GN56897	FA6574-4	mg/l	7.1	50	53.5	92.8	90-110%
Chloride	GP22141/GN56901	FA6576-3	mg/l	316	50	376	120.0(a)	90-110%
Fluoride	GP22198/GN57065	FA6524-3	mg/l	0.18	2.5	3.5	132.8N(b)	90-110%
Nitrogen, Nitrate	GP22137/GN56897	FA6574-4	mg/l	0.0	2.5	2.4	96.0	90-110%
Nitrogen, Nitrate	GP22141/GN56901	FA6576-3	mg/l	2.5 U	2.5	4.4	176.0N(b)	90-110%
Nitrogen, Nitrite	GP22137/GN56897	FA6574-4	mg/l	0.0	2.5	2.6	104.0	90-110%
Nitrogen, Nitrite	GP22141/GN56901	FA6576-3	mg/l	2.5 U	2.5	3.6	144.0N(b)	90-110%
Phosphate, Ortho	GP22120/GN56869	FA6522-3F	mg/l	0.026	.300	0.32	98.1	83-116%
Phosphorus, Total	GP22139/GN56900	FA6524-1	mg/l	29.9	.300	30.3	138.0(c)	81-118%
Sulfate	GP22137/GN56897	FA6574-4	mg/l	39.3	50	86.4	94.2	90-110%
Sulfate	GP22141/GN56901	FA6576-3	mg/l	2920	50	2850	-140.0(a)	90-110%

Associated Samples:
Batch GP22120: FA6569-1F, FA6569-2F, FA6569-3F, FA6569-4F
Batch GP22137: FA6569-1, FA6569-2, FA6569-3
Batch GP22139: FA6569-1, FA6569-2, FA6569-3, FA6569-4
Batch GP22141: FA6569-4
Batch GP22198: FA6569-1, FA6569-2, FA6569-3, FA6569-4
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(a) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.
(b) Spike recovery indicates possible matrix interference.
(c) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

MATRIX SPIKE DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: FA6569
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MSD Result	RPD	QC Limit
Chloride	GP22137/GN56897	FA6574-4	mg/l	7.1	50	54.3	1.5	20%
Chloride	GP22141/GN56901	FA6576-3	mg/l	316	50	381	1.3	20%
Fluoride	GP22198/GN57065	FA6524-3	mg/l	0.18	2.5	3.7	5.6	20%
Nitrogen, Nitrate	GP22137/GN56897	FA6574-4	mg/l	0.0	2.5	2.4	0.0	20%
Nitrogen, Nitrate	GP22141/GN56901	FA6576-3	mg/l	2.5 U	2.5	4.3	2.3	20%
Nitrogen, Nitrite	GP22137/GN56897	FA6574-4	mg/l	0.0	2.5	2.6	0.0	20%
Nitrogen, Nitrite	GP22141/GN56901	FA6576-3	mg/l	2.5 U	2.5	3.7	2.7	20%
Phosphate, Ortho	GP22120/GN56869	FA6522-3F	mg/l	0.026	.300mg/l	0.300	6.6	26%
Phosphorus, Total	GP22139/GN56900	FA6524-1	mg/l	29.9	.300	30.6	0.7	22%
Sulfate	GP22137/GN56897	FA6574-4	mg/l	39.3	50	87.1	0.8	20%
Sulfate	GP22141/GN56901	FA6576-3	mg/l	2920	50	2850	0.0	20%

Associated Samples:
Batch GP22120: FA6569-1F, FA6569-2F, FA6569-3F, FA6569-4F
Batch GP22137: FA6569-1, FA6569-2, FA6569-3
Batch GP22139: FA6569-1, FA6569-2, FA6569-3, FA6569-4
Batch GP22141: FA6569-4
Batch GP22198: FA6569-1, FA6569-2, FA6569-3, FA6569-4
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA6569
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: 313190701.TXT Date Analyzed: 07/19/13 Methods: EPA 300/SW846 9056A
Analyst: AC Run ID: GN56897
Parameters: Chloride,Nitrogen, Nitrate,Sulfate

Time	Sample Description	Dilution Factor	PS Recov	Comments
08:49	GN56897-CCV1	1		
09:05	GP22134-MB1	1		
09:20	GP22134-B1	1		
10:08	ZZZZZZ	5		
10:24	ZZZZZZ	10		
10:40	ZZZZZZ	10		
10:56	ZZZZZZ	50		
11:12	ZZZZZZ	50		
11:28	ZZZZZZ	10		
11:44	GN56897-CCV2	1		
12:00	GN56897-CCB1	1		
12:16	ZZZZZZ	1		
12:31	ZZZZZZ	10		
12:47	ZZZZZZ	1		
13:03	ZZZZZZ	1		
13:19	ZZZZZZ	25		
13:35	ZZZZZZ	1		
13:51	ZZZZZZ	10		
14:07	FA6522-3	10		(sample used for QC only; not part of login FA6569)
14:23	ZZZZZZ	50		
14:39	ZZZZZZ	100		
14:55	GN56897-CCV3	1		
15:11	GN56897-CCB2	1		
15:27	ZZZZZZ	25		
15:43	ZZZZZZ	100		
16:00	FA6574-1	2		(sample used for QC only; not part of login FA6569)
16:16	ZZZZZZ	2		
16:32	ZZZZZZ	2		
16:57	GP22134-S1	10		
17:13	GP22134-S2	10		
17:29	GP22134-S3	2		
17:45	GP22134-S4	2		
18:01	GN56897-CCV4	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA6569
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: 313190701.TXT Date Analyzed: 07/19/13 Methods: EPA 300/SW846 9056A
Analyst: AC Run ID: GN56897
Parameters: Chloride,Nitrogen, Nitrate,Sulfate

Time	Sample Description	Dilution Factor	PS Recov	Comments
18:17	GP22137-MB1	1		
18:33	GP22137-B1	1		
19:21	FA6574-4	5		(sample used for QC only; not part of login FA6569)
19:37	ZZZZZZ	5		
19:53	ZZZZZZ	2		
20:09	ZZZZZZ	5		
20:24	ZZZZZZ	5		
20:40	ZZZZZZ	25		
20:56	GN56897-CCV5	1		
21:12	GN56897-CCB3	1		
21:28	ZZZZZZ	25		
21:44	ZZZZZZ	25		
22:00	ZZZZZZ	25		
22:16	ZZZZZZ	25		
22:32	FA6575-11	50		(sample used for QC only; not part of login FA6569)
22:48	FA6569-3	25		
23:04	FA6569-1	100		
23:19	FA6569-2	5		
23:35	ZZZZZZ	50		
23:51	ZZZZZZ	25		
00:07	GN56897-CCV6	1		
00:23	GN56897-CCB4	1		
00:39	ZZZZZZ	10		
00:55	ZZZZZZ	10		
01:11	ZZZZZZ	1		
01:27	ZZZZZZ	25		
01:43	GP22137-S1	5		
01:59	GP22137-S2	5		
02:15	GP22137-S3	50		
02:30	GP22137-S4	50		
02:46	GN56897-CCV7	1		
03:02	GP22138-MB1	1		
03:18	GP22138-B1	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA6569
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: 313190701.TXT Date Analyzed: 07/19/13 Methods: EPA 300/SW846 9056A
Analyst: AC Run ID: GN56897
Parameters: Chloride,Nitrogen, Nitrate,Sulfate

Time	Sample Description	Dilution Factor	PS Recov	Comments
04:06	ZZZZZZ	10		
04:22	ZZZZZZ	10		
04:38	ZZZZZZ	1		
04:54	FA6575-8	5		(sample used for QC only; not part of login FA6569)
05:10	GP22138-S1	5		
05:26	GP22138-S2	5		
05:41	GN56897-CCV8	1		
05:57	GN56897-CCB5	1		
06:13	ZZZZZZ	50		
06:29	ZZZZZZ	50		
06:45	GN56897-CCV9	1		
07:01	GN56897-CCB6	1		

Refer to raw data for calibration curve and standards.

Instrument QC Summary
Inorganics Analyses

Login Number: FA6569
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: 313190701.TXT Date Analyzed: 07/19/13 Methods: EPA 300/SW846 9056A
Run ID: GN56897 Units: mg/l

Sample Number	Parameter	Result	RL	IDL/MDL	True Value	% Recov.	QC Limits
GN56897-CCV1	Chloride	51.6	2.0	0.80	50	103.2	90-110
GN56897-CCV1	Nitrogen, Nitrate	2.6	0.10	0.050	2.5	104.0	90-110
GN56897-CCV1	Sulfate	50.9	2.0	0.60	50	101.8	90-110
GN56897-CCV2	Chloride	51.6	2.0	0.80	50	103.2	90-110
GN56897-CCV2	Nitrogen, Nitrate	2.6	0.10	0.050	2.5	104.0	90-110
GN56897-CCV2	Sulfate	51.0	2.0	0.60	50	102.0	90-110
GN56897-CCB1	Chloride	0.80 U	2.0	0.80			
GN56897-CCB1	Nitrogen, Nitrate	0.050 U	0.10	0.050			
GN56897-CCB1	Sulfate	0.60 U	2.0	0.60			
GN56897-CCV3	Chloride	51.7	2.0	0.80	50	103.4	90-110
GN56897-CCV3	Nitrogen, Nitrate	2.6	0.10	0.050	2.5	104.0	90-110
GN56897-CCV3	Sulfate	51.0	2.0	0.60	50	102.0	90-110
GN56897-CCB2	Chloride	0.80 U	2.0	0.80			
GN56897-CCB2	Nitrogen, Nitrate	0.050 U	0.10	0.050			
GN56897-CCB2	Sulfate	0.60 U	2.0	0.60			
GN56897-CCV4	Chloride	51.6	2.0	0.80	50	103.2	90-110
GN56897-CCV4	Nitrogen, Nitrate	2.6	0.10	0.050	2.5	104.0	90-110
GN56897-CCV4	Sulfate	50.9	2.0	0.60	50	101.8	90-110
GN56897-CCV5	Chloride	51.6	2.0	0.80	50	103.2	90-110
GN56897-CCV5	Nitrogen, Nitrate	2.6	0.10	0.050	2.5	104.0	90-110
GN56897-CCV5	Sulfate	50.9	2.0	0.60	50	101.8	90-110
GN56897-CCB3	Chloride	0.80 U	2.0	0.80			
GN56897-CCB3	Nitrogen, Nitrate	0.050 U	0.10	0.050			
GN56897-CCB3	Sulfate	0.60 U	2.0	0.60			
GN56897-CCV6	Chloride	51.5	2.0	0.80	50	103.0	90-110
GN56897-CCV6	Nitrogen, Nitrate	2.6	0.10	0.050	2.5	104.0	90-110
GN56897-CCV6	Sulfate	50.9	2.0	0.60	50	101.8	90-110
GN56897-CCB4	Chloride	0.80 U	2.0	0.80			
GN56897-CCB4	Nitrogen, Nitrate	0.050 U	0.10	0.050			
GN56897-CCB4	Sulfate	0.60 U	2.0	0.60			
GN56897-CCV7	Chloride	51.6	2.0	0.80	50	103.2	90-110
GN56897-CCV7	Nitrogen, Nitrate	2.6	0.10	0.050	2.5	104.0	90-110
GN56897-CCV7	Sulfate	50.9	2.0	0.60	50	101.8	90-110
GN56897-CCV8	Chloride	51.6	2.0	0.80	50	103.2	90-110
GN56897-CCV8	Nitrogen, Nitrate	2.6	0.10	0.050	2.5	104.0	90-110
GN56897-CCV8	Sulfate	50.8	2.0	0.60	50	101.6	90-110
GN56897-CCB5	Chloride	0.80 U	2.0	0.80			
GN56897-CCB5	Nitrogen, Nitrate	0.050 U	0.10	0.050			
GN56897-CCB5	Sulfate	0.60 U	2.0	0.60			
GN56897-CCV9	Chloride	51.5	2.0	0.80	50	103.0	90-110
GN56897-CCV9	Nitrogen, Nitrate	2.6	0.10	0.050	2.5	104.0	90-110
GN56897-CCV9	Sulfate	50.9	2.0	0.60	50	101.8	90-110
GN56897-CCB6	Chloride	0.80 U	2.0	0.80			
GN56897-CCB6	Nitrogen, Nitrate	0.050 U	0.10	0.050			
GN56897-CCB6	Sulfate	0.60 U	2.0	0.60			

(!) Outside of QC limits

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA6569
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: 313200701.TXT Date Analyzed: 07/20/13 Methods: EPA 300/SW846 9056A
Analyst: AC Run ID: GN56901
Parameters: Chloride,Nitrogen, Nitrate,Sulfate

Time	Sample Description	Dilution Factor	PS Recov	Comments
08:21	GN56901-CCV1	1		
08:36	GP22141-MB1	1		
08:52	GP22141-B1	1		
09:40	FA6569-4	25		
09:56	ZZZZZZ	50		
10:12	FA6576-3	50		(sample used for QC only; not part of login FA6569)
10:28	ZZZZZZ	10		
10:44	ZZZZZZ	10		
11:00	ZZZZZZ	1		
11:16	GN56901-CCV2	1		
11:31	GN56901-CCB1	1		
11:47	ZZZZZZ	25		
12:03	ZZZZZZ	25		
12:19	ZZZZZZ	25		
12:35	ZZZZZZ	50		
12:51	ZZZZZZ	10		
13:07	ZZZZZZ	10		
13:23	ZZZZZZ	1		
13:39	FA6575-17	5		(sample used for QC only; not part of login FA6569)
13:55	ZZZZZZ	50		
14:11	ZZZZZZ	50		
14:26	GN56901-CCV3	1		
14:42	GN56901-CCB2	1		
14:58	ZZZZZZ	50		
15:14	ZZZZZZ	1		
15:30	ZZZZZZ	25		
15:46	ZZZZZZ	50		
16:02	GP22141-S1	50		
16:18	GP22141-S2	50		
16:34	GP22141-S3	5		
16:50	GP22141-S4	5		
17:06	GN56901-CCV4	1		
17:22	GP22142-MB1	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA6569
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: 313200701.TXT Date Analyzed: 07/20/13 Methods: EPA 300/SW846 9056A
Analyst: AC Run ID: GN56901
Parameters: Chloride,Nitrogen, Nitrate,Sulfate

Time	Sample Description	Dilution Factor	PS Recov	Comments
17:37	GP22142-B1	1		
18:25	ZZZZZZ	25		
18:41	ZZZZZZ	25		
18:57	ZZZZZZ	25		
19:13	FA6621-4	5		(sample used for QC only; not part of login FA6569)
19:29	GP22142-S1	5		
19:45	GP22142-S2	5		
20:01	GN56901-CCV5	1		
20:16	GN56901-CCB3	1		

Refer to raw data for calibration curve and standards.

Instrument QC Summary
Inorganics Analyses

Login Number: FA6569
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: 313200701.TXT Date Analyzed: 07/20/13 Methods: EPA 300/SW846 9056A
Run ID: GN56901 Units: mg/l

Sample Number	Parameter	Result	RL	IDL/MDL	True Value	% Recov.	QC Limits
GN56901-CCV1	Chloride	51.5	2.0	0.80	50	103.0	90-110
GN56901-CCV1	Nitrogen, Nitrate	2.6	0.10	0.050	2.5	104.0	90-110
GN56901-CCV1	Sulfate	50.8	2.0	0.60	50	101.6	90-110
GN56901-CCV2	Chloride	51.5	2.0	0.80	50	103.0	90-110
GN56901-CCV2	Nitrogen, Nitrate	2.6	0.10	0.050	2.5	104.0	90-110
GN56901-CCV2	Sulfate	51.0	2.0	0.60	50	102.0	90-110
GN56901-CCB1	Chloride	0.80 U	2.0	0.80			
GN56901-CCB1	Nitrogen, Nitrate	0.050 U	0.10	0.050			
GN56901-CCB1	Sulfate	0.60 U	2.0	0.60			
GN56901-CCV3	Chloride	51.5	2.0	0.80	50	103.0	90-110
GN56901-CCV3	Nitrogen, Nitrate	2.6	0.10	0.050	2.5	104.0	90-110
GN56901-CCV3	Sulfate	50.7	2.0	0.60	50	101.4	90-110
GN56901-CCB2	Chloride	0.80 U	2.0	0.80			
GN56901-CCB2	Nitrogen, Nitrate	0.050 U	0.10	0.050			
GN56901-CCB2	Sulfate	0.60 U	2.0	0.60			
GN56901-CCV4	Chloride	51.5	2.0	0.80	50	103.0	90-110
GN56901-CCV4	Nitrogen, Nitrate	2.6	0.10	0.050	2.5	104.0	90-110
GN56901-CCV4	Sulfate	50.8	2.0	0.60	50	101.6	90-110
GN56901-CCV5	Chloride	51.6	2.0	0.80	50	103.2	90-110
GN56901-CCV5	Nitrogen, Nitrate	2.6	0.10	0.050	2.5	104.0	90-110
GN56901-CCV5	Sulfate	51.0	2.0	0.60	50	102.0	90-110
GN56901-CCB3	Chloride	0.80 U	2.0	0.80			
GN56901-CCB3	Nitrogen, Nitrate	0.050 U	0.10	0.050			
GN56901-CCB3	Sulfate	0.60 U	2.0	0.60			

(!) Outside of QC limits

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA6569
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: 313230701.TXT Date Analyzed: 07/23/13 Methods: EPA 300/SW846 9056A
Analyst: AC Run ID: GN56951
Parameters: Nitrogen, Nitrate,Sulfate

Time	Sample Description	Dilution Factor	PS Recov	Comments
10:24	GN56951-CCV1	1		
10:39	GP22156-MB1	1		
10:55	GP22156-B1	1		
11:43	ZZZZZZ	25		
12:00	FA6569-2	10		
12:17	ZZZZZZ	1		
12:34	ZZZZZZ	1		
12:51	ZZZZZZ	1		
13:07	ZZZZZZ	1		
13:24	GN56951-CCV2	1		
13:42	GN56951-CCB1	1		
13:59	ZZZZZZ	5		
14:15	FA6655-2	5		(sample used for QC only; not part of login FA6569)
14:32	FA6664-1	2		(sample used for QC only; not part of login FA6569)
14:49	GP22156-S1	2		
15:06	GP22156-S2	2		
15:22	ZZZZZZ	25		
15:38	ZZZZZZ	25		
15:54	ZZZZZZ	50		
16:42	GN56951-CCV3	1		
16:58	GN56951-CCB2	1		

Refer to raw data for calibration curve and standards.

Instrument QC Summary
Inorganics Analyses

Login Number: FA6569
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: 313230701.TXT Date Analyzed: 07/23/13 Methods: EPA 300/SW846 9056A
Run ID: GN56951 Units: mg/l

Sample Number	Parameter	Result	RL	IDL/MDL	True Value	% Recov.	QC Limits
GN56951-CCV1	Nitrogen, Nitrate	2.6	0.10	0.050	2.5	104.0	90-110
GN56951-CCV1	Sulfate	51.1	2.0	0.60	50	102.2	90-110
GN56951-CCV2	Nitrogen, Nitrate	2.6	0.10	0.050	2.5	104.0	90-110
GN56951-CCV2	Sulfate	51.2	2.0	0.60	50	102.4	90-110
GN56951-CCB1	Nitrogen, Nitrate	0.050 U	0.10	0.050			
GN56951-CCB1	Sulfate	0.60 U	2.0	0.60			
GN56951-CCV3	Nitrogen, Nitrate	2.6	0.10	0.050	2.5	104.0	90-110
GN56951-CCV3	Sulfate	51.0	2.0	0.60	50	102.0	90-110
GN56951-CCB2	Nitrogen, Nitrate	0.050 U	0.10	0.050			
GN56951-CCB2	Sulfate	0.60 U	2.0	0.60			

(!) Outside of QC limits

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA6569
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: 213300701.TXT Date Analyzed: 07/30/13 Methods: EPA 300/SW846 9056A
Analyst: AA Run ID: GN57065
Parameters: Fluoride

Time	Sample Description	Dilution Factor	PS Recov	Comments
10:59	GN57065-CCV1	1		
11:15	GP22198-MB1	1		
11:32	GP22198-B1	1		
12:23	ZZZZZZ	1		
12:40	ZZZZZZ	1		
12:57	ZZZZZZ	1		
13:14	ZZZZZZ	1		
13:31	ZZZZZZ	1		
13:48	ZZZZZZ	5		
14:05	GN57065-CCV2	1		
14:21	GN57065-CCB1	1		
14:55	FA6524-3	1		(sample used for QC only; not part of login FA6569)
15:12	ZZZZZZ	1		
15:29	ZZZZZZ	1		
15:46	ZZZZZZ	1		
16:03	ZZZZZZ	1		
16:20	FA6569-1	2000		
16:37	FA6569-2	5		
16:54	FA6569-3	25		
17:11	FA6569-4	25		
17:28	GN57065-CCV3	1		
17:45	GN57065-CCB2	1		
18:35	GP22198-S3	1		
18:52	GP22198-S4	1		
19:09	ZZZZZZ	2		
19:26	GN57065-CCV4	1		
19:43	GN57065-CCB3	1		

Refer to raw data for calibration curve and standards.

Instrument QC Summary
Inorganics Analyses

Login Number: FA6569
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: 213300701.TXT Date Analyzed: 07/30/13 Methods: EPA 300/SW846 9056A
Run ID: GN57065 Units: mg/l

Sample Number	Parameter	Result	RL	IDL/MDL	True Value	% Recov.	QC Limits
GN57065-CCV1	Fluoride	2.7	0.20	0.060	2.5	108.0	90-110
GN57065-CCV2	Fluoride	2.6	0.20	0.060	2.5	104.0	90-110
GN57065-CCB1	Fluoride	0.060 U	0.20	0.060			
GN57065-CCV3	Fluoride	2.5	0.20	0.060	2.5	100.0	90-110
GN57065-CCB2	Fluoride	0.060 U	0.20	0.060			
GN57065-CCV4	Fluoride	2.6	0.20	0.060	2.5	104.0	90-110
GN57065-CCB3	Fluoride	0.060 U	0.20	0.060			

(!) Outside of QC limits

Southeast
ACCUTEST LABORATORIES

08/02/13

Technical Report for

WSP Environment & Energy

Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID 36785.01

Accutest Job Number: FA6570

Sampling Date: 07/17/13

Report to:

WSP Environment & Energy
205 West Park Street
Jackson, MO 63755
tim.huff@wspgroup.com

ATTN: Tim Huff

Total number of pages in report: **94**

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Harry Behzadi, Ph.D.
Laboratory Director

Client Service contact: Andrea Colby 407-425-6700

Certifications: FL (E83510), LA (03051), KS (E-10327), IA (366), IL (200063), NC (573), NJ (FL002), SC (96038001) DoD ELAP (L-A-B L2229), CA (04226CA), TX (T104704404), AK, AR, GA, KY, MA, NV, OK, UT, VA, WA, WI

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Sample Summary

WSP Environment & Energy

Job No: FA6570

Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID
Project No: 36785.01

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA6570-1	07/17/13	09:50	TP	07/19/13	AQ	Ground Water	A-35-080
FA6570-1F	07/17/13	09:50	TP	07/19/13	AQ	Groundwater Filtered	A-35-080
FA6570-2	07/17/13	11:15	TP	07/19/13	AQ	Ground Water	A-36-145
FA6570-2F	07/17/13	11:15	TP	07/19/13	AQ	Groundwater Filtered	A-36-145
FA6570-3	07/17/13	12:45	TP	07/19/13	AQ	Ground Water	A-36-105
FA6570-3F	07/17/13	12:45	TP	07/19/13	AQ	Groundwater Filtered	A-36-105
FA6570-4	07/17/13	13:30	TP	07/19/13	AQ	Equipment Blank	EB07172013
FA6570-4F	07/17/13	13:30	TP	07/19/13	AQ	Equip Blank Filtered	EB07172013

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: WSP Environment & Energy **Job:** FA6570

Site: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID **Report Date:** 8/1/2013 12:55:15 PM

5 Sample(s) were collected on 07/17/2013 and were received at Accutest SE on 07/19/2013 properly preserved, at 3 Deg. C and intact. These Samples received an Accutest job number of FA6570. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Metals By Method SW846 6010C

Matrix: AQ **Batch ID:** MP25566

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA6731-2DUP, FA6731-2MS, FA6731-2MSD, FA6731-2PS, FA6731-2SDL were used as the QC samples for metals.

Matrix Spike Recovery(s) for Aluminum, Antimony, Arsenic, Cadmium, Calcium, Chromium, Magnesium, Potassium are outside control limits. Spike recovery indicates possible matrix interference.

Matrix Spike Duplicate Recovery(s) for Aluminum, Antimony, Arsenic, Cadmium, Calcium, Chromium, Magnesium, Potassium are outside control limits. Spike recovery indicates possible matrix interference.
Matrix Spike Recovery(s)/Matrix Spike Duplicate Recovery(s) for Iron and Sodium are outside control limits. Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

RPD(s) for Duplicate for Selenium are outside control limits for sample MP25566-D1. RPD acceptable due to low duplicate and sample concentrations.

RPD(s) for Serial Dilution for Arsenic, Cadmium, Selenium, Sodium, Aluminum, Calcium, Chromium, Iron, Magnesium, Potassium are outside control limits for sample MP25566-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

MP25566-SD1 for Aluminum: Serial dilution indicates possible matrix interference.

MP25566-SD1 for Calcium: Serial dilution indicates possible matrix interference.

MP25566-SD1 for Chromium: Serial dilution indicates possible matrix interference.

MP25566-SD1 for Iron: Serial dilution indicates possible matrix interference.

MP25566-SD1 for Potassium: Serial dilution indicates possible matrix interference.

MP25566-PS1 for Potassium: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP25566-PS1 for Magnesium: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP25566-PS1 for Chromium: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP25566-PS1 for Cadmium: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP25566-PS1 for Aluminum: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP25566-SD1 for Magnesium: Serial dilution indicates possible matrix interference.

MP25566-PS1 for Antimony: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP25566-PS1 for Sodium: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP25566-PS1 for Arsenic: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

Wet Chemistry By Method EPA 120.1

Matrix: AQ **Batch ID:** GN56847

All method blanks for this batch meet method specific criteria.

Sample(s) FA6569-1DUP was used as the QC sample for Specific Conductivity.

The following samples were run outside of holding time for method EPA 120.1: FA6570-1, FA6570-2, FA6570-3, FA6570-4. Sample received outside the holding time.

Wet Chemistry By Method EPA 300/SW846 9056A

Matrix: AQ **Batch ID:** GP22134

All samples were prepped within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA6522-3MS, FA6522-3MSD were used as the QC samples for Chloride, Nitrogen, Nitrate, Sulfate.

Matrix Spike Recovery(s) for Chloride and Sulfate are outside control limits. Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

FA6570-3 for Nitrogen, Nitrate: Dilution required due to matrix interference.

Matrix: AQ **Batch ID:** GP22142

All method blanks for this batch meet method specific criteria.

Sample(s) FA6621-4MS, FA6621-4MSD were used as the QC samples for Chloride, Nitrogen, Nitrate, Sulfate.

FA6570-1 for Nitrogen, Nitrate: Sample analyzed beyond hold time.

FA6570-2 for Nitrogen, Nitrate: Sample analyzed beyond hold time. Dilution required due to matrix interference.

Matrix: AQ **Batch ID:** GP22207

All samples were prepped within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA6608-1MSD, FA6608-1MS were used as the QC samples for Fluoride.

Matrix Spike Recovery(s) for Fluoride are outside control limits. Spike recovery indicates possible matrix interference. Refer to lab control or spike blank for recovery information.

FA6570-1 for Fluoride: Dilution required due to matrix interference.

FA6570-2 for Fluoride: Dilution required due to matrix interference.

FA6570-3 for Fluoride: Dilution required due to matrix interference.

Wet Chemistry By Method EPA 365.3

Matrix: AQ **Batch ID:** GP22120

All method blanks for this batch meet method specific criteria.

Sample(s) FA6522-3FMS, FA6522-3FMSD were used as the QC samples for Phosphate, Ortho.

FA6570-1F for Phosphate, Ortho: Sample received beyond hold time.

Matrix: AQ **Batch ID:** GP22149

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA6570-2MS, FA6570-2MSD were used as the QC samples for Phosphorus, Total.

Wet Chemistry By Method SM 4500H B/SW 9040C

Matrix: AQ **Batch ID:** GN56841

Sample(s) FA6569-2DUP was used as the QC sample for pH.

FA6570-1 for pH: Field analysis required. Received out of hold time and analyzed by request.

FA6570-2 for pH: Field analysis required. Received out of hold time and analyzed by request.

FA6570-3 for pH: Field analysis required. Received out of hold time and analyzed by request.

FA6570-4 for pH: Field analysis required. Received out of hold time and analyzed by request.

Wet Chemistry By Method SM19 2320B

Matrix: AQ **Batch ID:** GN56879

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA6447-2DUP was used as the QC sample for Alkalinity, Total as CaCO3.

Matrix: AQ **Batch ID:** GN56881

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA6570-1DUP was used as the QC sample for Alkalinity, Total as CaCO3.

Wet Chemistry By Method SM19 2540C

Matrix: AQ **Batch ID:** GN56888

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA6570-1DUP was used as the QC samples for Solids, Total Dissolved.

Accutest Laboratories Southeast (ALSE) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALSE and as stated on the COC. ALSE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the ALSE Quality Manual except as noted above. This report is to be used in its entirety. ALSE is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

_____

Kim Benham, Client Services (signature on file)

Date: August 1, 2013

Summary of Hits

Job Number: FA6570
Account: WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID
Collected: 07/17/13

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA6570-1	**A-35-080**					
Aluminum		0.136 J	0.20	0.015	mg/l	SW846 6010C
Arsenic		0.0132	0.010	0.0025	mg/l	SW846 6010C
Cadmium		0.0011 J	0.0050	0.00050	mg/l	SW846 6010C
Calcium		464	1.0	0.050	mg/l	SW846 6010C
Iron		0.123 J	0.30	0.029	mg/l	SW846 6010C
Magnesium		310	5.0	0.074	mg/l	SW846 6010C
Potassium		50.7	10	0.20	mg/l	SW846 6010C
Selenium		0.0046 J	0.010	0.0020	mg/l	SW846 6010C
Sodium		240	50	2.5	mg/l	SW846 6010C
Alkalinity, Bicarbonate as CaCO3		623	5.0	5.0	mg/l	SM18 4500CO2D
Alkalinity, Total as CaCO3		623	25	3.0	mg/l	SM19 2320B
Chloride		174	50	20	mg/l	EPA 300/SW846 9056A
Nitrogen, Nitrate [a]		69.0	2.5	1.3	mg/l	EPA 300/SW846 9056A
Phosphorus, Total		81.0	25	7.0	mg/l	EPA 365.3
Solids, Total Dissolved		4670	500	50	mg/l	SM19 2540C
Specific Conductivity [b]		5420	1.0	1.0	umhos/cm	EPA 120.1
Sulfate		2150	50	15	mg/l	EPA 300/SW846 9056A
pH [c]		6.59			su	SM 4500H B/SW 9040C
FA6570-1F	**A-35-080**					
Phosphate, Ortho [b]		31.8	10	1.9	mg/l	EPA 365.3
FA6570-2	**A-36-145**					
Aluminum		0.0432 J	0.20	0.015	mg/l	SW846 6010C
Calcium		590	1.0	0.050	mg/l	SW846 6010C
Iron		0.161 J	0.30	0.029	mg/l	SW846 6010C
Magnesium		376	5.0	0.074	mg/l	SW846 6010C
Potassium		10.0	10	0.20	mg/l	SW846 6010C
Sodium		104	50	2.5	mg/l	SW846 6010C
Alkalinity, Bicarbonate as CaCO3		560	5.0	5.0	mg/l	SM18 4500CO2D
Alkalinity, Total as CaCO3		560	25	3.0	mg/l	SM19 2320B
Chloride		77.4	50	20	mg/l	EPA 300/SW846 9056A
Phosphorus, Total		0.17	0.10	0.028	mg/l	EPA 365.3
Solids, Total Dissolved		4540	500	50	mg/l	SM19 2540C
Specific Conductivity [b]		4510	1.0	1.0	umhos/cm	EPA 120.1
Sulfate		2740	100	30	mg/l	EPA 300/SW846 9056A
pH [c]		7.06			su	SM 4500H B/SW 9040C
FA6570-2F	**A-36-145**					
Phosphate, Ortho		0.33	0.10	0.020	mg/l	EPA 365.3

Summary of Hits

Job Number: FA6570
Account: WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID
Collected: 07/17/13

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA6570-3	**A-36-105**					
Aluminum		0.207	0.20	0.015	mg/l	SW846 6010C
Antimony		0.0060	0.0060	0.0013	mg/l	SW846 6010C
Cadmium		0.0421	0.0050	0.00050	mg/l	SW846 6010C
Calcium		441	1.0	0.050	mg/l	SW846 6010C
Iron		0.0371 J	0.30	0.029	mg/l	SW846 6010C
Magnesium		516	5.0	0.074	mg/l	SW846 6010C
Potassium		45.2	10	0.20	mg/l	SW846 6010C
Selenium		0.0224	0.010	0.0020	mg/l	SW846 6010C
Sodium		209	50	2.5	mg/l	SW846 6010C
Alkalinity, Bicarbonate as CaCO3		160	5.0	5.0	mg/l	SM18 4500CO2D
Alkalinity, Total as CaCO3		160	5.0	0.60	mg/l	SM19 2320B
Chloride		3.3	2.0	0.80	mg/l	EPA 300/SW846 9056A
Phosphorus, Total		0.30	0.10	0.028	mg/l	EPA 365.3
Solids, Total Dissolved		4660	500	50	mg/l	SM19 2540C
Specific Conductivity [b]		5430	1.0	1.0	umhos/cm	EPA 120.1
Sulfate		3770	100	30	mg/l	EPA 300/SW846 9056A
pH [c]		6.24			su	SM 4500H B/SW 9040C
FA6570-3F	**A-36-105**					
No hits reported in this sample.						
FA6570-4	**EB07172013**					
Calcium		0.0786 J	1.0	0.050	mg/l	SW846 6010C
Solids, Total Dissolved		4590	500	50	mg/l	SM19 2540C
Specific Conductivity [b]		8970	1.0	1.0	umhos/cm	EPA 120.1
Sulfate		3.0	2.0	0.60	mg/l	EPA 300/SW846 9056A
pH [c]		5.40			su	SM 4500H B/SW 9040C
FA6570-4F	**EB07172013**					
No hits reported in this sample.						

(a) Sample analyzed beyond hold time.
(b) Sample received outside the holding time.
(c) Field analysis required. Received out of hold time and analyzed by request.

Southeast ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: A-35-080
Lab Sample ID: FA6570-1
Matrix: AQ - Ground Water
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

Date Sampled: 07/17/13
Date Received: 07/19/13
Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	0.136 J	0.20	0.015	mg/l	1	07/26/13	07/29/13	LM	SW846 6010C [1]	SW846 3010A [3]
Antimony	0.0013 U	0.0060	0.0013	mg/l	1	07/26/13	07/29/13	LM	SW846 6010C [1]	SW846 3010A [3]
Arsenic	0.0132	0.010	0.0025	mg/l	1	07/26/13	07/29/13	LM	SW846 6010C [1]	SW846 3010A [3]
Cadmium	0.0011 J	0.0050	0.00050	mg/l	1	07/26/13	07/29/13	LM	SW846 6010C [1]	SW846 3010A [3]
Calcium	464	1.0	0.050	mg/l	1	07/26/13	07/29/13	LM	SW846 6010C [1]	SW846 3010A [3]
Chromium	0.0020 U	0.010	0.0020	mg/l	1	07/26/13	07/29/13	LM	SW846 6010C [1]	SW846 3010A [3]
Iron	0.123 J	0.30	0.029	mg/l	1	07/26/13	07/29/13	LM	SW846 6010C [1]	SW846 3010A [3]
Magnesium	310	5.0	0.074	mg/l	1	07/26/13	07/29/13	LM	SW846 6010C [1]	SW846 3010A [3]
Potassium	50.7	10	0.20	mg/l	1	07/26/13	07/29/13	LM	SW846 6010C [1]	SW846 3010A [3]
Selenium	0.0046 J	0.010	0.0020	mg/l	1	07/26/13	07/29/13	LM	SW846 6010C [1]	SW846 3010A [3]
Sodium	240	50	2.5	mg/l	5	07/26/13	07/30/13	LM	SW846 6010C [2]	SW846 3010A [3]

(1) Instrument QC Batch: MA10932
(2) Instrument QC Batch: MA10935
(3) Prep QC Batch: MP25566

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: A-35-080
Lab Sample ID: FA6570-1
Matrix: AQ - Ground Water
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

Date Sampled: 07/17/13
Date Received: 07/19/13
Percent Solids: n/a

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Alkalinity, Bicarbonate as CaC	623	5.0	5.0	mg/l	1	07/22/13 11:15	HH	SM18 4500CO2D
Alkalinity, Carbonate	5.0 U	5.0	5.0	mg/l	1	07/22/13 11:15	HH	SM18 4500CO2D
Alkalinity, Total as CaCO3	623	25	3.0	mg/l	1	07/22/13 11:15	HH	SM19 2320B
Chloride	174	50	20	mg/l	25	07/20/13 18:25	AC	EPA 300/SW846 9056A
Fluoride [a]	1.5 U	5.0	1.5	mg/l	25	07/31/13 10:49	AA	EPA 300/SW846 9056A
Nitrogen, Nitrate [b]	69.0	2.5	1.3	mg/l	25	07/20/13 18:25	AC	EPA 300/SW846 9056A
Phosphorus, Total	81.0	25	7.0	mg/l	250	07/23/13 14:02	LE	EPA 365.3
Solids, Total Dissolved	4670	500	50	mg/l	5	07/22/13 13:35	KC	SM19 2540C
Specific Conductivity [c]	5420	1.0	1.0	umhos/cm	1	07/19/13 14:30	AA	EPA 120.1
Sulfate	2150	50	15	mg/l	25	07/20/13 18:25	AC	EPA 300/SW846 9056A
pH [d]	6.59			su	1	07/19/13 14:45	HH	SM 4500H B/SW 9040C

(a) Dilution required due to matrix interference.
(b) Sample analyzed beyond hold time.
(c) Sample received outside the holding time.
(d) Field analysis required. Received out of hold time and analyzed by request.

RL = Reporting Limit
MDL = Method Detection Limit
U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	A-35-080		
Lab Sample ID:	FA6570-1F	**Date Sampled:**	07/17/13
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/19/13
		Percent Solids:	n/a
Project:	Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Phosphate, Ortho [a]	31.8	10	1.9	mg/l	100	07/19/13 11:00	LE	EPA 365.3

(a) Sample received outside the holding time.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: A-36-145
Lab Sample ID: FA6570-2
Matrix: AQ - Ground Water
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

Date Sampled: 07/17/13
Date Received: 07/19/13
Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	0.0432 J	0.20	0.015	mg/l	1	07/26/13	07/29/13	LM	SW846 6010C [1]	SW846 3010A [3]
Antimony	0.0013 U	0.0060	0.0013	mg/l	1	07/26/13	07/29/13	LM	SW846 6010C [1]	SW846 3010A [3]
Arsenic	0.0025 U	0.010	0.0025	mg/l	1	07/26/13	07/29/13	LM	SW846 6010C [1]	SW846 3010A [3]
Cadmium	0.00050 U	0.0050	0.00050	mg/l	1	07/26/13	07/29/13	LM	SW846 6010C [1]	SW846 3010A [3]
Calcium	590	1.0	0.050	mg/l	1	07/26/13	07/29/13	LM	SW846 6010C [1]	SW846 3010A [3]
Chromium	0.0020 U	0.010	0.0020	mg/l	1	07/26/13	07/29/13	LM	SW846 6010C [1]	SW846 3010A [3]
Iron	0.161 J	0.30	0.029	mg/l	1	07/26/13	07/29/13	LM	SW846 6010C [1]	SW846 3010A [3]
Magnesium	376	5.0	0.074	mg/l	1	07/26/13	07/29/13	LM	SW846 6010C [1]	SW846 3010A [3]
Potassium	10.0	10	0.20	mg/l	1	07/26/13	07/29/13	LM	SW846 6010C [1]	SW846 3010A [3]
Selenium	0.0020 U	0.010	0.0020	mg/l	1	07/26/13	07/29/13	LM	SW846 6010C [1]	SW846 3010A [3]
Sodium	104	50	2.5	mg/l	5	07/26/13	07/30/13	LM	SW846 6010C [2]	SW846 3010A [3]

(1) Instrument QC Batch: MA10932
(2) Instrument QC Batch: MA10935
(3) Prep QC Batch: MP25566

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: A-36-145
Lab Sample ID: FA6570-2
Matrix: AQ - Ground Water
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

Date Sampled: 07/17/13
Date Received: 07/19/13
Percent Solids: n/a

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Alkalinity, Bicarbonate as CaC	560	5.0	5.0	mg/l	1	07/22/13 11:15	HH	SM18 4500CO2D
Alkalinity, Carbonate	5.0 U	5.0	5.0	mg/l	1	07/22/13 11:15	HH	SM18 4500CO2D
Alkalinity, Total as CaCO3	560	25	3.0	mg/l	1	07/22/13 11:15	HH	SM19 2320B
Chloride	77.4	50	20	mg/l	25	07/20/13 18:41	AC	EPA 300/SW846 9056A
Fluoride [a]	1.5 U	5.0	1.5	mg/l	25	07/31/13 11:06	AA	EPA 300/SW846 9056A
Nitrogen, Nitrate [b]	1.3 U	2.5	1.3	mg/l	25	07/20/13 18:41	AC	EPA 300/SW846 9056A
Phosphorus, Total	0.17	0.10	0.028	mg/l	1	07/23/13 14:02	LE	EPA 365.3
Solids, Total Dissolved	4540	500	50	mg/l	5	07/22/13 13:35	KC	SM19 2540C
Specific Conductivity [c]	4510	1.0	1.0	umhos/cm	1	07/19/13 14:30	AA	EPA 120.1
Sulfate	2740	100	30	mg/l	50	07/23/13 15:54	AC	EPA 300/SW846 9056A
pH [d]	7.06			su	1	07/19/13 14:45	HH	SM 4500H B/SW 9040C

(a) Dilution required due to matrix interference.
(b) Sample analyzed beyond hold time. Dilution required due to matrix interference.
(c) Sample received outside the holding time.
(d) Field analysis required. Received out of hold time and analyzed by request.

RL = Reporting Limit
MDL = Method Detection Limit
U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	A-36-145		
Lab Sample ID:	FA6570-2F	**Date Sampled:**	07/17/13
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/19/13
		Percent Solids:	n/a
Project:	Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Phosphate, Ortho	0.33	0.10	0.020	mg/l	1	07/19/13 11:00	LE	EPA 365.3

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: A-36-105
Lab Sample ID: FA6570-3
Matrix: AQ - Ground Water
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

Date Sampled: 07/17/13
Date Received: 07/19/13
Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	0.207	0.20	0.015	mg/l	1	07/26/13	07/29/13	LM	SW846 6010C [1]	SW846 3010A [3]
Antimony	0.0060	0.0060	0.0013	mg/l	1	07/26/13	07/29/13	LM	SW846 6010C [1]	SW846 3010A [3]
Arsenic	0.0025 U	0.010	0.0025	mg/l	1	07/26/13	07/29/13	LM	SW846 6010C [1]	SW846 3010A [3]
Cadmium	0.0421	0.0050	0.00050	mg/l	1	07/26/13	07/29/13	LM	SW846 6010C [1]	SW846 3010A [3]
Calcium	441	1.0	0.050	mg/l	1	07/26/13	07/29/13	LM	SW846 6010C [1]	SW846 3010A [3]
Chromium	0.0020 U	0.010	0.0020	mg/l	1	07/26/13	07/29/13	LM	SW846 6010C [1]	SW846 3010A [3]
Iron	0.0371 J	0.30	0.029	mg/l	1	07/26/13	07/29/13	LM	SW846 6010C [1]	SW846 3010A [3]
Magnesium	516	5.0	0.074	mg/l	1	07/26/13	07/29/13	LM	SW846 6010C [1]	SW846 3010A [3]
Potassium	45.2	10	0.20	mg/l	1	07/26/13	07/29/13	LM	SW846 6010C [1]	SW846 3010A [3]
Selenium	0.0224	0.010	0.0020	mg/l	1	07/26/13	07/29/13	LM	SW846 6010C [1]	SW846 3010A [3]
Sodium	209	50	2.5	mg/l	5	07/26/13	07/30/13	LM	SW846 6010C [2]	SW846 3010A [3]

(1) Instrument QC Batch: MA10932
(2) Instrument QC Batch: MA10935
(3) Prep QC Batch: MP25566

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: A-36-105
Lab Sample ID: FA6570-3
Matrix: AQ - Ground Water
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

Date Sampled: 07/17/13
Date Received: 07/19/13
Percent Solids: n/a

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Alkalinity, Bicarbonate as CaC	160	5.0	5.0	mg/l	1	07/22/13 10:05	HH	SM18 4500CO2D
Alkalinity, Carbonate	5.0 U	5.0	5.0	mg/l	1	07/22/13 10:05	HH	SM18 4500CO2D
Alkalinity, Total as CaCO3	160	5.0	0.60	mg/l	1	07/22/13 10:05	HH	SM19 2320B
Chloride	3.3	2.0	0.80	mg/l	1	07/19/13 12:16	AC	EPA 300/SW846 9056A
Fluoride [a]	1.5 U	5.0	1.5	mg/l	25	07/31/13 11:22	AA	EPA 300/SW846 9056A
Nitrogen, Nitrate [a]	0.050 U	0.10	0.050	mg/l	1	07/19/13 12:16	AC	EPA 300/SW846 9056A
Phosphorus, Total	0.30	0.10	0.028	mg/l	1	07/23/13 14:02	LE	EPA 365.3
Solids, Total Dissolved	4660	500	50	mg/l	5	07/22/13 13:35	KC	SM19 2540C
Specific Conductivity [b]	5430	1.0	1.0	umhos/cm	1	07/19/13 14:30	AA	EPA 120.1
Sulfate	3770	100	30	mg/l	50	07/24/13 19:22	AC	EPA 300/SW846 9056A
pH [c]	6.24			su	1	07/19/13 14:45	HH	SM 4500H B/SW 9040C

(a) Dilution required due to matrix interference.
(b) Sample received outside the holding time.
(c) Field analysis required. Received out of hold time and analyzed by request.

RL = Reporting Limit
MDL = Method Detection Limit
U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	A-36-105		
Lab Sample ID:	FA6570-3F	**Date Sampled:**	07/17/13
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/19/13
		Percent Solids:	n/a
Project:	Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Phosphate, Ortho	0.020 U	0.10	0.020	mg/l	1	07/19/13 11:00	LE	EPA 365.3

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: EB07172013
Lab Sample ID: FA6570-4
Matrix: AQ - Equipment Blank
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

Date Sampled: 07/17/13
Date Received: 07/19/13
Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	0.015 U	0.20	0.015	mg/l	1	07/26/13	07/29/13	LM	SW846 6010C [1]	SW846 3010A [2]
Antimony	0.0013 U	0.0060	0.0013	mg/l	1	07/26/13	07/29/13	LM	SW846 6010C [1]	SW846 3010A [2]
Arsenic	0.0025 U	0.010	0.0025	mg/l	1	07/26/13	07/29/13	LM	SW846 6010C [1]	SW846 3010A [2]
Cadmium	0.00050 U	0.0050	0.00050	mg/l	1	07/26/13	07/29/13	LM	SW846 6010C [1]	SW846 3010A [2]
Calcium	0.0786 J	1.0	0.050	mg/l	1	07/26/13	07/29/13	LM	SW846 6010C [1]	SW846 3010A [2]
Chromium	0.0020 U	0.010	0.0020	mg/l	1	07/26/13	07/29/13	LM	SW846 6010C [1]	SW846 3010A [2]
Iron	0.029 U	0.30	0.029	mg/l	1	07/26/13	07/29/13	LM	SW846 6010C [1]	SW846 3010A [2]
Magnesium	0.074 U	5.0	0.074	mg/l	1	07/26/13	07/29/13	LM	SW846 6010C [1]	SW846 3010A [2]
Potassium	0.20 U	10	0.20	mg/l	1	07/26/13	07/29/13	LM	SW846 6010C [1]	SW846 3010A [2]
Selenium	0.0020 U	0.010	0.0020	mg/l	1	07/26/13	07/29/13	LM	SW846 6010C [1]	SW846 3010A [2]
Sodium	0.50 U	10	0.50	mg/l	1	07/26/13	07/29/13	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10932
(2) Prep QC Batch: MP25566

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: EB07172013
Lab Sample ID: FA6570-4
Matrix: AQ - Equipment Blank
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

Date Sampled: 07/17/13
Date Received: 07/19/13
Percent Solids: n/a

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Alkalinity, Bicarbonate as CaC	5.0 U	5.0	5.0	mg/l	1	07/22/13 10:05	HH	SM18 4500CO2D
Alkalinity, Carbonate	5.0 U	5.0	5.0	mg/l	1	07/22/13 10:05	HH	SM18 4500CO2D
Alkalinity, Total as CaCO3	0.60 U	5.0	0.60	mg/l	1	07/22/13 10:05	HH	SM19 2320B
Chloride	0.80 U	2.0	0.80	mg/l	1	07/19/13 12:47	AC	EPA 300/SW846 9056A
Fluoride	0.060 U	0.20	0.060	mg/l	1	07/31/13 11:39	AA	EPA 300/SW846 9056A
Nitrogen, Nitrate	0.050 U	0.10	0.050	mg/l	1	07/19/13 12:47	AC	EPA 300/SW846 9056A
Phosphorus, Total	0.028 U	0.10	0.028	mg/l	1	07/23/13 14:02	LE	EPA 365.3
Solids, Total Dissolved	4590	500	50	mg/l	5	07/22/13 13:35	KC	SM19 2540C
Specific Conductivity [a]	8970	1.0	1.0	umhos/cm	1	07/19/13 14:30	AA	EPA 120.1
Sulfate	3.0	2.0	0.60	mg/l	1	07/19/13 12:47	AC	EPA 300/SW846 9056A
pH [b]	5.40			su	1	07/19/13 14:45	HH	SM 4500H B/SW 9040C

(a) Sample received outside the holding time.
(b) Field analysis required. Received out of hold time and analyzed by request.

RL = Reporting Limit
MDL = Method Detection Limit
U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	EB07172013		
Lab Sample ID:	FA6570-4F	**Date Sampled:**	07/17/13
Matrix:	AQ - Equip Blank Filtered	**Date Received:**	07/19/13
		Percent Solids:	n/a
Project:	Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Phosphate, Ortho	0.020 U	0.10	0.020	mg/l	1	07/19/13 11:00	LE	EPA 365.3

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Southeast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

Accutest Laboratories Southeast
Chain of Custody

ACCUTEST LABORATORIES

4405 Vineland Road, Suite C-15 Orlando, Fl 32811
TEL. 407-425-6700 • FAX: 407-425-0707
www.accutest.com

Accutest JOB # FA 6570 PAGE_____OF_____

Accutest Quote # | SKIFF#

Client / Reporting Information: Name WSP ENV & ENG; 205 W. Park St; City Jefferson State MO Zip 65755; E-mail Tim.Huff@wsp-usa.com; Tim Huff; 21-212-6759; Sampler(s): Tim Fannin

Project Information: Project Name; Street; City State; Project #; Fax #; Client Purchase Order #

Analytical Information: SEE ATTACHED

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL - Sludge; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe

Field ID / Point of Collection	DATE	TIME	SAMPLED BY:	MATRIX	TOTAL # OF BOTTLES	OTHER	NONE	HCl	NaOH	HNO3	H2SO4	NaOH+ZnAc	DI WATER	MEOH	LAB USE ONLY
A-35-080	07/17/13	0950	TF	GW	4		X			X	X			X	1
A-36-145		1115			4		X			X	X			X	2
A-36-105		1245			4		X			X	X			X	3
EB07172013		1330			4		X			X	X			X	4

TURNAROUND TIME (Business Days) — Approved By: / Rush Code

- Days Standard
- by RUSH
- by RUSH
- by EMERGENCY
- by EMERGENCY
- by EMERGENCY
- HER

Emergency or Rush T/A Data Available VIA Email or Lablink

Data Deliverable Information

- COMMERCIAL "A" (RESULTS ONLY)
- COMMERCIAL "B" (RESULTS PLUS QC)
- REDT1 (EPA LEVEL 3)
- FULT1 (EPA LEVEL 4)
- EDD'S

Comments / Remarks

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time: 07/17/13	Received By: 2	Relinquished by: 3	Date Time:	Received By: 4
Relinquished by:	Date Time:	Received By:	Relinquished by:	Date Time:	Received By:

5.1 5

FA6570: Chain of Custody
Page 1 of 3

O-Phos - Field Filtered

Note: A-34-022 High Phosphate

Analyte List #2 (groundwater samples and groundwater sampling equipment blanks)

- total dissolved solids (TDS)
- Total metals - aluminum, antimony, arsenic, cadmium, calcium, chromium, iron, magnesium, potassium, selenium, and sodium
- chloride, fluoride, nitrate as N, and sulfate
- pH
- total phosphorous
- dissolved orthophosphate
- bicarbonate and carbonate alkalinity as $CaCO_3$
- specific conductance

NOTE – If turbidity at the time of [illegible]
submit to lab

FA6570: Chain of Custody
Page 2 of 3

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: FA 6570 CLIENT: WSP PROJECT: ?

DATE/TIME RECEIVED: 7-19-13 10:00 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 1

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 8017 3246 6913

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET
- [ ] WET ICE PRESENT

TRIP BLANK INFORMATION

- [ ] TRIP BLANK PROVIDED
- [X] TRIP BLANK NOT PROVIDED
- [X] TRIP BLANK NOT ON COC
- [ ] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [ ] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM _____ 5-GRAM _____

NUMBER OF 5035 FIELD KITS ? _____

NUMBER OF LAB FILTERED METALS ? _____

TEMPERATURE INFORMATION

- [ ] IR THERM ID 3 CORR. FACTOR +0.1
- [ ] OBSERVED TEMPS: 2.6
- [ ] CORRECTED TEMPS: 3.0

SAMPLE INFORMATION

- [ ] SAMPLE LABELS PRESENT ON ALL BOTTLES
- [ ] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] 5035 FIELD KIT FROZEN WITHIN 48 HOUR'S
- [ ] RESIDUAL CHLORINE PRESENT

{APPICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

SUMMARY OF COMMENTS: _____

TECHNICIAN SIGNATURE/DATE JC 7-19-13 REVIEWER SIGNATURE/DATE 07/19/13

NF 12/10 receipt confirmation 122910.xls

5.1 5

FA6570: Chain of Custody

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Southeast ACCUTEST LABORATORIES

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Instrument Runlogs
- Initial and Continuing Calibration Blanks
- Initial and Continuing Calibration Checks
- High and Low Check Standards
- Interfering Element Check Standards
- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA6570
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA072913M1.ICP Date Analyzed: 07/29/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10932
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
07:59	MA10932-STD1	1		STDA
08:03	MA10932-STD2	1		STDB
08:07	MA10932-STD3	1		STDC
08:10	MA10932-STD4	1		STDD
08:15	MA10932-HSTD1	1		
08:23	MA10932-ICV1	1		
08:28	MA10932-ICB1	1		
08:32	MA10932-CRIA1	1		
09:18	MA10932-ICSA1	1		
09:25	MA10932-ICSAB1	1		
09:29	MA10932-CCV1	1		
09:34	MA10932-CCB1	1		
09:39	MP25566-MB1	1		
09:43	MP25566-B1	1		
09:48	FA6731-2	1		(sample used for QC only; not part of login FA6570)
09:52	MP25566-D1	1		
09:56	MP25566-SD1	5		
10:01	MP25566-PS1	1		
10:05	MP25566-S1	1		
10:09	MP25566-S2	1		
10:14	ZZZZZZ	1		
10:18	ZZZZZZ	1		
10:23	MA10932-CCV2	1		
10:27	MA10932-CCB2	1		
10:31	ZZZZZZ	1		
10:36	ZZZZZZ	1		
10:41	ZZZZZZ	1		
10:45	ZZZZZZ	1		
10:55	ZZZZZZ	1		
10:59	ZZZZZZ	1		
11:04	ZZZZZZ	1		
11:08	FA6570-1	1		
11:13	FA6570-2	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA6570
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA072913M1.ICP Date Analyzed: 07/29/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10932
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
11:18	MA10932-CCV3	1		
11:22	MA10932-CCB3	1		
11:27	FA6570-3	1		
11:31	FA6570-4	1		
11:36	ZZZZZZ	1		
11:41	ZZZZZZ	1		
11:45	ZZZZZZ	1		
11:50	ZZZZZZ	1		
11:54	ZZZZZZ	1		
11:59	MP25566-MB2	1		
---------->	Last reportable sample/prep for job FA6570			
12:03	MP25572-MB1	1		
12:08	MP25572-B1	1		
12:12	MA10932-CCV4	1		
12:16	MA10932-CCB4	1		
12:21	MP25572-B2	1		
12:25	MP25572-B3	1		
12:30	FA6353-1L	1		(sample used for QC only; not part of login FA6570)
12:35	MP25572-D1	1		
12:44	MP25574-MB1	1		
12:48	MP25574-B1	1		
12:53	FA6794-2	1		(sample used for QC only; not part of login FA6570)
12:57	MP25574-D1	1		
13:02	MP25574-SD1	5		
13:06	MP25574-PS1	1		
13:10	MA10932-CCV5	1		
13:15	MA10932-CCB5	1		
13:19	MP25574-S1	1		
13:23	MP25574-S2	1		
13:28	ZZZZZZ	1		
13:32	ZZZZZZ	1		
13:37	ZZZZZZ	1		
13:41	ZZZZZZ	1		
13:46	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA6570
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA072913M1.ICP Date Analyzed: 07/29/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10932
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
13:50	ZZZZZZ	1		
13:55	ZZZZZZ	1		
13:59	ZZZZZZ	1		
14:04	MA10932-CCV6	1		
14:08	MA10932-CCB6	1		
14:13	ZZZZZZ	1		
14:17	ZZZZZZ	1		
14:31	ZZZZZZ	1		
14:36	ZZZZZZ	1		
14:40	ZZZZZZ	1		
14:45	ZZZZZZ	1		
14:49	ZZZZZZ	1		
14:54	ZZZZZZ	1		
14:58	MA10932-CCV7	1		
15:03	MA10932-CCB7	1		
15:07	MP25574-MB2A	1		
15:12	MP25571-MB1	1		
15:16	MP25571-B1	1		
15:21	FA6743-1	1		(sample used for QC only; not part of login FA6570)
15:25	MP25571-D1	1		
15:30	MP25571-SD1	5		
15:34	MP25571-S1	1		
15:39	MP25571-S2	1		
15:43	ZZZZZZ	1		
15:48	ZZZZZZ	1		
15:52	MA10932-CCV8	1		
15:57	MA10932-CCB8	1		
16:01	MP25576-MB1	1		
16:06	MP25576-B1	1		
16:10	JB42532-2R	1		(sample used for QC only; not part of login FA6570)
16:14	MP25576-D1	1		
16:19	MP25576-SD1	5		
16:24	MP25576-S1	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA6570
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA072913M1.ICP Date Analyzed: 07/29/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10932
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
16:28	MP25576-S2	1		
16:32	MP25576-MB2	1		
16:37	MP25576-B2	1		
16:41	MA10932-CRIA2	1		
16:45	MA10932-CCV9	1		
16:50	MA10932-CCB9	1		
16:54	MA10932-ICSA2	1		
16:59	MA10932-ICSAB2	1		
17:03	MA10932-CCV10	1		
17:08	MA10932-CCB10	1		
---------->	Last reportable CCB for job FA6570			
	Refer to raw data for calibration curve and standards.			

INTERNAL STANDARD SUMMARY

Login Number: FA6570
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA072913M1.ICP Date Analyzed: 07/29/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10932
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
07:59	MA10932-STD1	2119	20871	4203	1106
08:03	MA10932-STD2	2084	20447	4189	1039
08:07	MA10932-STD3	1998	19644	4135	940
08:10	MA10932-STD4	1925	19122	4113	869
08:15	MA10932-HSTD1	1928	19155	4111	872
08:23	MA10932-ICV1	2008	19722	4177	950
08:28	MA10932-ICB1	2148 R	21143 R	4292 R	1131 R
08:32	MA10932-CRIA1	2112	20736	4271	1087
09:18	MA10932-ICSA1	1829	17824	3982	810
09:25	MA10932-ICSAB1	1831	17871	3989	805
09:29	MA10932-CCV1	2007	19843	4164	941
09:34	MA10932-CCB1	2131	21126	4234	1118
09:39	MP25566-MB1	2140	21447	4315	1124
09:43	MP25566-B1	2074	20347	4248	1006
09:48	FA6731-2	2620	24589	5889	708
09:52	MP25566-D1	2624	24638	5882	706
09:56	MP25566-SD1	2149	20319	4559	860
10:01	MP25566-PS1	2614	24553	5831 !	710
10:05	MP25566-S1	2602	24498	5843	703
10:09	MP25566-S2	2621	24714	5862	702
10:14	ZZZZZZ	2139	21379	4336	1118
10:18	ZZZZZZ	2118	21214	4310	1098
10:23	MA10932-CCV2	2015	20101	4180	945
10:27	MA10932-CCB2	2142	21384	4226	1120
10:31	ZZZZZZ	2137	21486	4271	1114
10:36	ZZZZZZ	2124	21294	4302	1104
10:41	ZZZZZZ	1953	19398	4125	948
10:45	ZZZZZZ	2085	20587	4281	988
10:55	ZZZZZZ	1912	19069	4089	912
10:59	ZZZZZZ	1800	17726	3968	806
11:04	ZZZZZZ	1827	18003	3987	832
11:08	FA6570-1	1792	17843	3942	822
11:13	FA6570-2	1770	17686	3903	826

INTERNAL STANDARD SUMMARY

Login Number: FA6570
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA072913M1.ICP Date Analyzed: 07/29/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10932
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
11:18	MA10932-CCV3	2019	19940	4166	946
11:22	MA10932-CCB3	2146	21222	4252	1124
11:27	FA6570-3	1898	18799	4127	794
11:31	FA6570-4	2133	21410	4298	1123
11:36	ZZZZZZ	2080	20599	4232	1050
11:41	ZZZZZZ	2078	20663	4252	1048
11:45	ZZZZZZ	2076	20664	4236	1048
11:50	ZZZZZZ	2147	21459	4293	1130
11:54	ZZZZZZ	2081	20658	4238	1051
11:59	MP25566-MB2	2146	21513	4301	1132
12:03	MP25572-MB1	1934	19664	3953	1071
12:08	MP25572-B1	1965	20144	4025	1069
12:12	MA10932-CCV4	2033	20301	4244	959
12:16	MA10932-CCB4	2144	21434	4224	1127
12:21	MP25572-B2	1978	20265	4087	1094
12:25	MP25572-B3	2000	20537	4082	1109
12:30	FA6353-1L	1996	20391	4073	1097
12:35	MP25572-D1	2001	20491	4073	1102
12:44	MP25574-MB1	2134	21589	4255	1129
12:48	MP25574-B1	2041	20404	4213	1001
12:53	FA6794-2	2100	21040	4239	1085
12:57	MP25574-D1	2082	21002	4232	1073
13:02	MP25574-SD1	2112	21095	4205	1103
13:06	MP25574-PS1	2074	20727	4224	1036
13:10	MA10932-CCV5	1990	19831	4122	936
13:15	MA10932-CCB5	2126	21195	4206	1114
13:19	MP25574-S1	2063	20457	4258	983
13:23	MP25574-S2	2058	20450	4243	982
13:28	ZZZZZZ	1957	19759	4159	974
13:32	ZZZZZZ	2104	21198	4272	1094
13:37	ZZZZZZ	2084	20870	4259	1080
13:41	ZZZZZZ	2061	20571	4235	1048
13:46	ZZZZZZ	2110	21048	4230	1121

INTERNAL STANDARD SUMMARY

Login Number: FA6570
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA072913M1.ICP Date Analyzed: 07/29/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10932
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
13:50	ZZZZZZ	2103	21012	4222	1119
13:55	ZZZZZZ	2107	21081	4216	1119
13:59	ZZZZZZ	2121	21264	4277	1127
14:04	MA10932-CCV6	1991	19669	4112	939
14:08	MA10932-CCB6	2123	20962	4208	1116
14:13	ZZZZZZ	2115	21255	4264	1126
14:17	ZZZZZZ	2118	21232	4259	1126
14:31	ZZZZZZ	1803	17994	3960	840
14:36	ZZZZZZ	1832	18340	3980	874
14:40	ZZZZZZ	1815	18183	3971	871
14:45	ZZZZZZ	1925	19240	4095	958
14:49	ZZZZZZ	2045	20432	4243	1029
14:54	ZZZZZZ	2027	20338	4207	1031
14:58	MA10932-CCV7	1992	19585	4113	940
15:03	MA10932-CCB7	2114	20895	4201	1114
15:07	MP25574-MB2A	2124	21117	4274	1128
15:12	MP25571-MB1	2129	20834	4207	1120
15:16	MP25571-B1	2045	20010	4206	1003
15:21	FA6743-1	1993	19202	4151	952
15:25	MP25571-D1	1995	19270	4180	955
15:30	MP25571-SD1	2101	20231	4197	1056
15:34	MP25571-S1	1975	18961	4127	907
15:39	MP25571-S2	1988	19015	4139	917
15:43	ZZZZZZ	2050	19634	4187	1002
15:48	ZZZZZZ	2032	19590	4200	988
15:52	MA10932-CCV8	2018	19624	4182	956
15:57	MA10932-CCB8	2141	20850	4228	1127
16:01	MP25576-MB1	2151	21153	4285	1143
16:06	MP25576-B1	2045	19900	4224	1009
16:10	JB42532-2R	2093	20483	4286	1073
16:14	MP25576-D1	2090	20326	4245	1072
16:19	MP25576-SD1	2125	20698	4253	1117
16:24	MP25576-S1	2045	19759	4263	993

INTERNAL STANDARD SUMMARY

Login Number: FA6570
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA072913M1.ICP Date Analyzed: 07/29/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10932
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
16:28	MP25576-S2	2032	19750	4284	990
16:32	MP25576-MB2	2103	20774	4292	1129
16:37	MP25576-B2	2045	19932	4261	1008
16:41	MA10932-CRIA2	2098	20264	4233	1086
16:45	MA10932-CCV9	2003	19434	4177	952
16:50	MA10932-CCB9	2120	20678	4279	1129
16:54	MA10932-ICSA2	1821	17572	3964	821
16:59	MA10932-ICSAB2	1828	17581	3983	813
17:03	MA10932-CCV10	2015	19529	4180	952
17:08	MA10932-CCB10	2127	20704	4242	1125

R = Reference for ISTD limits. ! = Outside limits.

LEGEND:

Istd#	Parameter	Limits
Istd#1	Yttrium (2243)	60-125 %
Istd#2	Yttrium (3600)	60-125 %
Istd#3	Yttrium (3710)	60-125 %
Istd#4	Indium	60-125 %

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: FA6570
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA072913M1.ICP Date Analyzed: 07/29/13 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA10932 Units: ug/l

Time:			08:28		09:34		10:27		11:22	
Sample ID:			ICB1		CCB1		CCB2		CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	15	6.0	<200	6.4	<200	4.3	<200	-3.5	<200
Antimony	6.0	1.3	-0.10	<6.0	0.20	<6.0	-0.40	<6.0	0.0	<6.0
Arsenic	10	1.6	0.90	<10	2.4	<10	2.6	<10	1.9	<10
Barium	200	1	anr							
Beryllium	4.0	.5	anr							
Cadmium	5.0	.5	0.0	<5.0	0.10	<5.0	0.10	<5.0	0.10	<5.0
Calcium	1000	50	1.9	<1000	8.6	<1000	7.9	<1000	19.0	<1000
Chromium	10	1.8	0.20	<10	-0.20	<10	0.0	<10	-0.10	<10
Cobalt	50	.5	anr							
Copper	25	1	anr							
Iron	300	29	5.3	<300	15.2	<300	14.0	<300	14.2	<300
Lead	5.0	1.1	anr							
Magnesium	5000	74	-50	<5000	-1.5	<5000	-5.9	<5000	5.1	<5000
Manganese	15	.7	anr							
Molybdenum	50	.6								
Nickel	40	.5	anr							
Potassium	10000	200	7.9	<10000	8.4	<10000	96.0	<10000	80.3	<10000
Selenium	10	2	0.30	<10	1.2	<10	0.80	<10	-0.60	<10
Silver	10	.5	anr							
Sodium	10000	500	8.3	<10000	10.3	<10000	352	<10000	256	<10000
Strontium	10	.5								
Thallium	10	1.3	anr							
Tin	50	.7								
Titanium	10	.9								
Vanadium	50	.5	anr							
Zinc	20	3	anr							

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: FA6570
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA072913M1.ICP Date Analyzed: 07/29/13 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA10932 Units: ug/l

Time: / Sample ID:			12:16 CCB4		13:15 CCB5		14:08 CCB6		15:03 CCB7	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	15	-4.7	<200	-1.3	<200	-1.6	<200	0.30	<200
Antimony	6.0	1.3	-0.20	<6.0	-1.2	<6.0	-1.3	<6.0	-0.30	<6.0
Arsenic	10	1.6	1.9	<10	1.3	<10	2.4	<10	2.0	<10
Barium	200	1	anr							
Beryllium	4.0	.5	anr							
Cadmium	5.0	.5	0.10	<5.0	0.0	<5.0	0.10	<5.0	0.0	<5.0
Calcium	1000	50	3.3	<1000	3.3	<1000	6.1	<1000	7.3	<1000
Chromium	10	1.8	0.0	<10	0.0	<10	0.0	<10	0.20	<10
Cobalt	50	.5	anr							
Copper	25	1	anr							
Iron	300	29	5.2	<300	12.1	<300	11.5	<300	11.4	<300
Lead	5.0	1.1	anr							
Magnesium	5000	74	-19	<5000	-20	<5000	-15	<5000	10.2	<5000
Manganese	15	.7	anr							
Molybdenum	50	.6								
Nickel	40	.5	anr							
Potassium	10000	200	33.5	<10000	6.6	<10000	9.8	<10000	26.3	<10000
Selenium	10	2	1.3	<10	-0.60	<10	0.0	<10	-1.3	<10
Silver	10	.5	anr							
Sodium	10000	500	102	<10000	72.7	<10000	51.0	<10000	56.9	<10000
Strontium	10	.5								
Thallium	10	1.3	anr							
Tin	50	.7								
Titanium	10	.9								
Vanadium	50	.5	anr							
Zinc	20	3	anr							

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: FA6570
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA072913M1.ICP Date Analyzed: 07/29/13 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA10932 Units: ug/l

Time:			15:57		16:50		17:08	
Sample ID:			CCB8		CCB9		CCB10	
Metal	RL	IDL	raw	final	raw	final	raw	final
Aluminum	200	15	5.1	<200	0.40	<200	15.8	<200
Antimony	6.0	1.3	-1.7	<6.0	-1.1	<6.0	-1.0	<6.0
Arsenic	10	1.6	2.9	<10	1.6	<10	2.1	<10
Barium	200	1	anr					
Beryllium	4.0	.5	anr					
Cadmium	5.0	.5	0.20	<5.0	0.20	<5.0	0.10	<5.0
Calcium	1000	50	12.4	<1000	5.4	<1000	18.5	<1000
Chromium	10	1.8	0.30	<10	0.20	<10	0.0	<10
Cobalt	50	.5	anr					
Copper	25	1	anr					
Iron	300	29	12.4	<300	12.0	<300	20.6	<300
Lead	5.0	1.1	anr					
Magnesium	5000	74	7.7	<5000	12.2	<5000	-31	<5000
Manganese	15	.7	anr					
Molybdenum	50	.6						
Nickel	40	.5	anr					
Potassium	10000	200	13.7	<10000	0.60	<10000	6.2	<10000
Selenium	10	2	0.40	<10	-0.60	<10	0.80	<10
Silver	10	.5	anr					
Sodium	10000	500	93.1	<10000	52.4	<10000	45.9	<10000
Strontium	10	.5						
Thallium	10	1.3	anr					
Tin	50	.7						
Titanium	10	.9						
Vanadium	50	.5	anr					
Zinc	20	3	anr					

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA6570
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA072913M1.ICP Date Analyzed: 07/29/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA10932 Units: ug/l

Time:		08:23			09:29			10:23	
Sample ID:	ICV	ICV1		CCV	CCV1		CCV	CCV2	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	39400	98.5	40000	40200	100.5	40000	39800	99.5
Antimony	2000	2000	100.0	2000	1980	99.0	2000	1980	99.0
Arsenic	2000	1980	99.0	2000	1980	99.0	2000	1970	98.5
Barium	anr								
Beryllium	anr								
Cadmium	2000	2010	100.5	2000	2000	100.0	2000	2000	100.0
Calcium	40000	40900	102.3	40000	41100	102.8	40000	40700	101.8
Chromium	2000	2030	101.5	2000	2030	101.5	2000	1980	99.0
Cobalt	anr								
Copper	anr								
Iron	40000	40300	100.8	40000	41400	103.5	40000	40600	101.5
Lead	anr								
Magnesium	40000	38900	97.3	40000	40500	101.3	40000	39400	98.5
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium	40000	40200	100.5	40000	39700	99.3	40000	39400	98.5
Selenium	2000	2010	100.5	2000	2020	101.0	2000	2030	101.5
Silver	anr								
Sodium	40000	40200	100.5	40000	39600	99.0	40000	38300	95.8
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium	anr								
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA6570
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA072913M1.ICP Date Analyzed: 07/29/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA10932 Units: ug/l

Time:		11:18			12:12			13:10	
Sample ID:	CCV	CCV3		CCV	CCV4		CCV	CCV5	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	39700	99.3	40000	39600	99.0	40000	40100	100.3
Antimony	2000	1980	99.0	2000	2000	100.0	2000	2010	100.5
Arsenic	2000	1970	98.5	2000	1980	99.0	2000	2000	100.0
Barium	anr								
Beryllium	anr								
Cadmium	2000	2000	100.0	2000	2000	100.0	2000	2020	101.0
Calcium	40000	40500	101.3	40000	40000	100.0	40000	40300	100.8
Chromium	2000	2010	100.5	2000	1990	99.5	2000	2010	100.5
Cobalt	anr								
Copper	anr								
Iron	40000	39900	99.8	40000	39500	98.8	40000	39900	99.8
Lead	anr								
Magnesium	40000	39400	98.5	40000	38800	97.0	40000	38700	96.8
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium	40000	39400	98.5	40000	39800	99.5	40000	40100	100.3
Selenium	2000	2010	100.5	2000	2030	101.5	2000	2050	102.5
Silver	anr								
Sodium	40000	38600	96.5	40000	39500	98.8	40000	39900	99.8
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium	anr								
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA6570
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA072913M1.ICP Date Analyzed: 07/29/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA10932 Units: ug/l

Time:		14:04			14:58			15:52	
Sample ID:	CCV	CCV6		CCV	CCV7		CCV	CCV8	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	40000	100.0	40000	40300	100.8	40000	39100	97.8
Antimony	2000	2020	101.0	2000	2020	101.0	2000	2010	100.5
Arsenic	2000	2010	100.5	2000	2010	100.5	2000	2010	100.5
Barium	anr								
Beryllium	anr								
Cadmium	2000	2040	102.0	2000	2040	102.0	2000	2060	103.0
Calcium	40000	40700	101.8	40000	40500	101.3	40000	40700	101.8
Chromium	2000	2030	101.5	2000	2040	102.0	2000	2020	101.0
Cobalt	anr								
Copper	anr								
Iron	40000	39800	99.5	40000	39600	99.0	40000	38500	96.3
Lead	anr								
Magnesium	40000	39500	98.8	40000	39400	98.5	40000	38800	97.0
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium	40000	40200	100.5	40000	40200	100.5	40000	39400	98.5
Selenium	2000	2030	101.5	2000	2020	101.0	2000	1990	99.5
Silver	anr								
Sodium	40000	40000	100.0	40000	40100	100.3	40000	39300	98.3
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium	anr								
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA6570
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA072913M1.ICP Date Analyzed: 07/29/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA10932 Units: ug/l

Time:		16:45			17:03	
Sample ID:	CCV	CCV9		CCV	CCV10	
Metal	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	39300	98.3	40000	39500	98.8
Antimony	2000	2020	101.0	2000	2010	100.5
Arsenic	2000	2030	101.5	2000	2020	101.0
Barium	anr					
Beryllium	anr					
Cadmium	2000	2060	103.0	2000	2050	102.5
Calcium	40000	40300	100.8	40000	40300	100.8
Chromium	2000	2040	102.0	2000	2050	102.5
Cobalt	anr					
Copper	anr					
Iron	40000	38200	95.5	40000	38400	96.0
Lead	anr					
Magnesium	40000	38900	97.3	40000	38800	97.0
Manganese	anr					
Molybdenum						
Nickel	anr					
Potassium	40000	39600	99.0	40000	39700	99.3
Selenium	2000	1960	98.0	2000	1970	98.5
Silver	anr					
Sodium	40000	39700	99.3	40000	39800	99.5
Strontium						
Thallium	anr					
Tin						
Titanium						
Vanadium	anr					
Zinc	anr					

(*) Outside of QC limits
(anr) Analyte not requested

HIGH STANDARD CHECK SUMMARY

Login Number: FA6570
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA072913M1.ICP Date Analyzed: 07/29/13 Methods: SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA10932 Units: ug/l

Time:		08:15	
Sample ID:	HSTD	HSTD1	
Metal	True	Results	% Rec
Aluminum	80000	79500	99.4
Antimony	4000	4040	101.0
Arsenic	4000	4030	100.8
Barium	anr		
Beryllium	anr		
Cadmium	4000	3970	99.3
Calcium	80000	79300	99.1
Chromium	4000	3960	99.0
Cobalt	anr		
Copper	anr		
Iron	80000	78600	98.3
Lead	anr		
Magnesium	80000	79800	99.8
Manganese	anr		
Molybdenum			
Nickel	anr		
Potassium	80000	80000	100.0
Selenium	4000	4010	100.3
Silver	anr		
Sodium	80000	79900	99.9
Strontium			
Thallium	anr		
Tin			
Titanium			
Vanadium	anr		
Zinc	anr		

(*) Outside of QC limits
(anr) Analyte not requested

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: FA6570
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA072913M1.ICP Date Analyzed: 07/29/13 Methods: SW846 6010C
QC Limits: CRI 70-130% CRIA 70-130% Run ID: MA10932 Units: ug/l

Time:			08:32		16:41	
Sample ID:	CRI	CRIA	CRIA1		CRIA2	
Metal	True	True	Results	% Rec	Results	% Rec
Aluminum	400	200	203	101.5	204	102.0
Antimony	10	5.0	4.9	98.0	4.8	96.0
Arsenic	20	10	11.9	119.0	12.7	127.0
Barium	400	200	anr			
Beryllium	10	5.0	anr			
Cadmium	10	5.0	5.2	104.0	5.1	102.0
Calcium	2000	1000	1120	112.0	1040	104.0
Chromium	20	10	9.8	98.0	10.2	102.0
Cobalt	100	50	anr			
Copper	50	25	anr			
Iron	600	300	313	104.3	310	103.3
Lead	10	5.0	anr			
Magnesium	10000	5000	4900	98.0	4790	95.8
Manganese	30	15	anr			
Molybdenum	100	50				
Nickel	80	40	anr			
Potassium	20000	10000	9720	97.2	9820	98.2
Selenium	20	10	9.8	98.0	8.6	86.0
Silver	20	10	anr			
Sodium	20000	10000	9710	97.1	9900	99.0
Strontium	20	10				
Thallium	20	10	anr			
Tin	100	50				
Titanium	20	10				
Vanadium	100	50	anr			
Zinc	40	20	anr			

(*) Outside of QC limits
(anr) Analyte not requested

INTERFERING ELEMENT CHECK STANDARDS SUMMARY
Part 1 - ICSA and ICSAB Standards

Login Number: FA6570
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA072913M1.ICP Date Analyzed: 07/29/13 Methods: SW846 6010C
QC Limits: 80 to 120 % Recovery Run ID: MA10932 Units: ug/l

Time:			09:18		09:25		16:54		16:59	
Sample ID:	ICSA	ICSAB	ICSA1		ICSAB1		ICSA2		ICSAB2	
Metal	True	True	Results	% Rec	Results	% Rec	Results	% Rec	Results	% Rec
Aluminum	500000	500000	507000	101.4	510000	102.0	501000	100.2	495000	99.0
Antimony		1000	0.0		999	99.9	-1.8		1020	102.0
Arsenic		1000	0.0		1010	101.0	1.8		1030	103.0
Barium		500	0.0		520	104.0	0.20		517	103.4
Beryllium		500	-0.20		499	99.8	-0.30		487	97.4
Cadmium		1000	0.0		901	90.1	2.0		923	92.3
Calcium	500000	500000	482000	96.4	485000	97.0	476000	95.2	473000	94.6
Chromium		500	0.0		476	95.2	-0.50		475	95.0
Cobalt		500	1.4		456	91.2	1.1		453	90.6
Copper		500	0.50		535	107.0	-1.3		539	107.8
Iron	200000	200000	187000	93.5	185000	92.5	174000	87.0	170000	85.0
Lead		1000	0.0		919	91.9	-0.70		926	92.6
Magnesium	500000	500000	510000	102.0	510000	102.0	490000	98.0	486000	97.2
Manganese		500	0.0		481	96.2	0.0		496	99.2
Molybdenum		1000	0.70		944	94.4	1.0		931	93.1
Nickel		1000	0.10		893	89.3	0.20		903	90.3
Potassium			22.1		3.5		6.4		19.3	
Selenium		1000	1.5		974	97.4	2.1		961	96.1
Silver		1000	0.60		995	99.5	0.60		1000	100.0
Sodium			103		83.4		187		176	
Strontium		1000	11.8		1020	102.0	11.8		1010	101.0
Thallium		1000	0.0		920	92.0	2.8		919	91.9
Tin		1000	4.3		909	90.9	4.8		914	91.4
Titanium		1000	-2.1		976	97.6	-2.0		1010	101.0
Vanadium		500	-0.90		473	94.6	-0.10		485	97.0
Zinc		1000	4.2		919	91.9	4.6		927	92.7

(*) Outside of QC limits
(anr) Analyte not requested

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA6570
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA073013M1.ICP Date Analyzed: 07/30/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10935
Parameters: Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
07:58	MA10935-STD1	1		STDA
08:03	MA10935-STD2	1		STDB
08:06	MA10935-STD3	1		STDC
08:10	MA10935-STD4	1		STDD
08:14	MA10935-HSTD1	1		
08:20	MA10935-ICV1	1		
08:27	MA10935-ICB1	1		
08:31	MA10935-CRIA1	1		
08:40	MA10935-ICSA1	1		
08:47	MA10935-ICSAB1	1		
08:54	MA10935-CCV1	1		
09:03	MA10935-CCB1	1		
09:09	MP25578-MB1	1		
09:13	MP25578-B1	1		
09:18	FA6726-15	1		(sample used for QC only; not part of login FA6570)
09:22	MP25578-D1	1		
09:27	MP25578-SD1	5		
09:33	MP25578-PS1	1		
09:37	MP25578-S1	1		
09:41	MP25578-S2	1		
09:46	ZZZZZZ	1		
09:50	ZZZZZZ	1		
09:55	MA10935-CCV2	1		
09:59	MA10935-CCB2	1		
10:03	ZZZZZZ	1		
10:08	ZZZZZZ	1		
10:12	ZZZZZZ	1		
10:17	ZZZZZZ	1		
10:21	ZZZZZZ	1		
10:26	ZZZZZZ	1		
10:30	ZZZZZZ	1		
10:35	ZZZZZZ	1		
10:39	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA6570
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA073013M1.ICP Date Analyzed: 07/30/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10935
Parameters: Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
10:44	ZZZZZZ	1		
10:48	MA10935-CCV3	1		
10:52	MA10935-CCB3	1		
10:57	ZZZZZZ	1		
11:01	ZZZZZZ	1		
11:06	ZZZZZZ	1		
11:10	ZZZZZZ	1		
11:15	ZZZZZZ	1		
11:19	ZZZZZZ	1		
11:24	ZZZZZZ	1		
11:28	MP25577-MB1	1		
11:33	MP25577-B1	1		
11:37	FA6808-1	1		(sample used for QC only; not part of login FA6570)
11:41	MA10935-CCV4	1		
11:45	MA10935-CCB4	1		
11:50	MP25577-D1	1		
11:54	MP25577-SD1	5		
11:59	MP25577-PS1	1		
12:03	MP25577-S1	1		
12:07	MP25577-S2	1		
12:12	ZZZZZZ	1		
12:16	ZZZZZZ	1		
12:21	ZZZZZZ	1		
12:25	ZZZZZZ	1		
12:30	ZZZZZZ	1		
12:34	MA10935-CCV5	1		
12:38	MA10935-CCB5	1		
12:43	ZZZZZZ	5		
12:47	ZZZZZZ	5		
12:52	ZZZZZZ	1		
12:56	ZZZZZZ	1		
13:01	ZZZZZZ	1		
13:05	MP25583-MB1	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA6570
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA073013M1.ICP Date Analyzed: 07/30/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10935
Parameters: Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
13:10	MP25583-B1	1		
13:14	FA6717-6	1		(sample used for QC only; not part of login FA6570)
13:18	MP25583-D1	1		
13:23	MP25583-SD1	5		
13:28	MA10935-CCV6	1		
13:32	MA10935-CCB6	1		
13:42	MP25583-S1	1		
13:47	MP25583-S2	1		
13:51	FA6731-1	1		(sample used for QC only; not part of login FA6570)
13:56	ZZZZZZ	1		
14:00	MP25583-MB2	1		
14:05	MP25583-B2	1		
14:10	MP25583-D2	1		
14:14	ZZZZZZ	1		
14:19	ZZZZZZ	1		
14:23	ZZZZZZ	1		
14:33	MA10935-CCV7	1		
14:39	MA10935-CCB7	1		
15:03	MA10935-CCV8	1		
15:08	MA10935-CCB8	1		
15:12	ZZZZZZ	1		
15:17	ZZZZZZ	1		
15:22	ZZZZZZ	1		
15:26	ZZZZZZ	1		
15:30	ZZZZZZ	1		
15:39	FA6740-1	5		(sample used for QC only; not part of login FA6570)
15:44	MP25579-D1	5		
15:48	MP25579-S1	5		
15:53	MP25579-S2	5		
15:57	MA10935-CCV9	1		
16:01	MA10935-CCB9	1		
16:06	MP25579-PS1	5		
16:10	MP25579-SD1	25		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA6570
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA073013M1.ICP Date Analyzed: 07/30/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10935
Parameters: Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
16:15	ZZZZZZ	5		
16:19	ZZZZZZ	25		
16:23	ZZZZZZ	5		
16:28	ZZZZZZ	10		
16:32	ZZZZZZ	4		
16:37	ZZZZZZ	5		
16:41	ZZZZZZ	4		
16:45	ZZZZZZ	4		
16:50	MA10935-CCV10	1		
16:54	MA10935-CCB10	1		
16:58	ZZZZZZ	5		
17:03	ZZZZZZ	4		
17:07	FA6731-2	200		(sample used for QC only; not part of login FA6570)
17:12	MP25566-D1	200		
17:17	MP25566-S1	200		
17:21	MP25566-S2	200		
17:26	MP25566-PS1	200		
17:30	MP25566-SD1	1000		
17:35	ZZZZZZ	5		
17:39	ZZZZZZ	10		
17:44	MA10935-CCV11	1		
17:48	MA10935-CCB11	1		
17:53	ZZZZZZ	10		
17:57	FA6570-1	5		
18:02	FA6570-2	5		
18:06	FA6570-3	5		
---------->	Last reportable sample/prep for job FA6570			
18:11	ZZZZZZ	2		
18:15	ZZZZZZ	4		
18:20	ZZZZZZ	5		
18:24	MA10935-CRIA2	1		
18:29	MA10935-ICSA2	1		
18:33	MA10935-ICSAB2	1		
18:38	MA10935-CCV12	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA6570
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA073013M1.ICP Date Analyzed: 07/30/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10935
Parameters: Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
18:42	MA10935-CCB12	1		
---------->	Last reportable CCB for job FA6570			
18:47	MA10935-CCV13	1		
18:51	MA10935-CCB13	1		

Refer to raw data for calibration curve and standards.

INTERNAL STANDARD SUMMARY

Login Number: FA6570
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA073013M1.ICP Date Analyzed: 07/30/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10935
Parameters: Na

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
07:58	MA10935-STD1	1901	21158	5867	1062
08:03	MA10935-STD2	1860	20586	5828	985
08:06	MA10935-STD3	1769	19617	5720	880
08:10	MA10935-STD4	1691	19039	5631	806
08:14	MA10935-HSTD1	1690	18979	5645	803
08:20	MA10935-ICV1	1765	19587	5720	877
08:27	MA10935-ICB1	1895 R	21217 R	5791 R	1055 R
08:31	MA10935-CRIA1	1874	20747	5776	1011
08:40	MA10935-ICSA1	1597	17456	5326	752
08:47	MA10935-ICSAB1	1598	17448	5305	745
08:54	MA10935-CCV1	1774	19643	5724	877
09:03	MA10935-CCB1	1895	21154	5811	1053
09:09	MP25578-MB1	1873	20995	5734	1049
09:13	MP25578-B1	1795	19719	5637	920
09:18	FA6726-15	1890	20835	5817	1008
09:22	MP25578-D1	1898	20929	5815	1013
09:27	MP25578-SD1	1921	21227	5843	1052
09:33	MP25578-PS1	1854	20256	5748	964
09:37	MP25578-S1	1788	19510	5661	898
09:41	MP25578-S2	1791	19539	5683	910
09:46	ZZZZZZ	1815	19898	5866	862
09:50	ZZZZZZ	1885	20728	5772	1024
09:55	MA10935-CCV2	1813	19830	5769	894
09:59	MA10935-CCB2	1926	21106	5858	1067
10:03	ZZZZZZ	1915	20991	5968	958
10:08	ZZZZZZ	1911	20910	5784	1046
10:12	ZZZZZZ	1927	21148	5824	1053
10:17	ZZZZZZ	1920	21108	5977	996
10:21	ZZZZZZ	1924	21079	5799	1060
10:26	ZZZZZZ	1953	21161	5871	1054
10:30	ZZZZZZ	1928	21018	5846	1052
10:35	ZZZZZZ	1910	20890	5777	1055
10:39	ZZZZZZ	1885	20412	5755	1006

INTERNAL STANDARD SUMMARY

Login Number: FA6570
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA073013M1.ICP Date Analyzed: 07/30/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10935
Parameters: Na

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
10:44	ZZZZZZ	1902	20698	5771	1036
10:48	MA10935-CCV3	1828	19800	5811	903
10:52	MA10935-CCB3	1933	20960	5836	1069
10:57	ZZZZZZ	1906	20708	5772	1037
11:01	ZZZZZZ	1903	20852	5704	1057
11:06	ZZZZZZ	1897	20681	5751	1035
11:10	ZZZZZZ	1909	20765	5749	1050
11:15	ZZZZZZ	1884	20165	5943	884
11:19	ZZZZZZ	1892	20397	5817	985
11:24	ZZZZZZ	1952	21173	5897	1041
11:28	MP25577-MB1	1907	20810	5755	1061
11:33	MP25577-B1	1806	19454	5661	925
11:37	FA6808-1	1951	20728	6189	876
11:41	MA10935-CCV4	1828	19660	5784	902
11:45	MA10935-CCB4	1933	20922	5865	1071
11:50	MP25577-D1	1986	21206	6099	980
11:54	MP25577-SD1	1922	20524	5887	994
11:59	MP25577-PS1	1936	20499	6099	867
12:03	MP25577-S1	1882	20080	5912	911
12:07	MP25577-S2	1885	20036	5890	918
12:12	ZZZZZZ	1989	21101	6067	995
12:16	ZZZZZZ	1996	21243	6164	973
12:21	ZZZZZZ	1987	21181	6086	994
12:25	ZZZZZZ	2020	21655	6181	1010
12:30	ZZZZZZ	2577 !	27766 !	7823 !	1018
12:34	MA10935-CCV5	1835	19675	5814	905
12:38	MA10935-CCB5	1948	20898	5839	1078
12:43	ZZZZZZ	2009	21583	6468	859
12:47	ZZZZZZ	2297	24648	7246	918
12:52	ZZZZZZ	1869	19997	5728	983
12:56	ZZZZZZ	1867	20080	5793	957
13:01	ZZZZZZ	2023	21288	6207	944
13:05	MP25583-MB1	1964	21216	6050	1112

INTERNAL STANDARD SUMMARY

Login Number: FA6570
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA073013M1.ICP Date Analyzed: 07/30/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10935
Parameters: Na

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
13:10	MP25583-B1	1859	19931	5889	955
13:14	FA6717-6	1800	19189	5820	923
13:18	MP25583-D1	1797	19181	5832	924
13:23	MP25583-SD1	1856	19939	5773	997
13:28	MA10935-CCV6	1790	19389	5719	886
13:32	MA10935-CCB6	1920	20721	5801	1071
13:42	MP25583-S1	1783	19032	5806	877
13:47	MP25583-S2	1789	18961	5786	881
13:51	FA6731-1	1796	19033	5827	924
13:56	ZZZZZZ	1782	18917	5815	920
14:00	MP25583-MB2	1783	18912	5813	921
14:05	MP25583-B2	1782	18861	5822	878
14:10	MP25583-D2	1779	18863	5817	921
14:14	ZZZZZZ	1763	18815	5620	926
14:19	ZZZZZZ	1860	19957	5748	1008
14:23	ZZZZZZ	1771	19023	5812	828
14:33	MA10935-CCV7	1792	19313	5720	888
14:39	MA10935-CCB7	1919	20616	5845	1065
15:03	MA10935-CCV8	1783	19271	5751	883
15:08	MA10935-CCB8	1914	20618	5824	1064
15:12	ZZZZZZ	1747	18652	5668	830
15:17	ZZZZZZ	1887	20374	5766	1038
15:22	ZZZZZZ	1919	20675	5888	1034
15:26	ZZZZZZ	1916	20634	5862	1037
15:30	ZZZZZZ	1898	20351	5836	1031
15:39	FA6740-1	2093	22174	6569	964
15:44	MP25579-D1	2061	21807	6462	966
15:48	MP25579-S1	2119	22412	6679	950
15:53	MP25579-S2	2106	22229	6665	946
15:57	MA10935-CCV9	1796	19306	5841	895
16:01	MA10935-CCB9	1914	20670	5872	1071
16:06	MP25579-PS1	2052	21869	6495	953
16:10	MP25579-SD1	1955	20784	6014	1029

INTERNAL STANDARD SUMMARY

Login Number: FA6570
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA073013M1.ICP Date Analyzed: 07/30/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10935
Parameters: Na

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
16:15	ZZZZZZ	2066	21943	6526	955
16:19	ZZZZZZ	2190	23337	6698	1060
16:23	ZZZZZZ	1988	21105	6356	926
16:28	ZZZZZZ	2062	21870	6417	1009
16:32	ZZZZZZ	2036	21509	6411	953
16:37	ZZZZZZ	1937	20528	6096	962
16:41	ZZZZZZ	2039	21576	6473	925
16:45	ZZZZZZ	2050	21579	6435	949
16:50	MA10935-CCV10	1806	19264	5797	902
16:54	MA10935-CCB10	1927	20522	5874	1078
16:58	ZZZZZZ	1915	20229	6064	941
17:03	ZZZZZZ	1808	19480	5826	991
17:07	FA6731-2	1891	20167	5896	1025
17:12	MP25566-D1	1900	20144	5865	1024
17:17	MP25566-S1	1900	20111	5860	1026
17:21	MP25566-S2	1905	20091	5847	1027
17:26	MP25566-PS1	1885	20046	5864	1021
17:30	MP25566-SD1	1909	20464	5859	1058
17:35	ZZZZZZ	1969	20859	6390	829
17:39	ZZZZZZ	1833	19344	5746	957
17:44	MA10935-CCV11	1806	19171	5796	897
17:48	MA10935-CCB11	1924	20455	5867	1070
17:53	ZZZZZZ	1845	19532	5798	974
17:57	FA6570-1	1736	18710	5691	896
18:02	FA6570-2	1748	18800	5639	911
18:06	FA6570-3	1762	18839	5682	891
18:11	ZZZZZZ	1744	18956	5710	919
18:15	ZZZZZZ	1828	19588	5781	980
18:20	ZZZZZZ	1778	19032	5682	925
18:24	MA10935-CRIA2	1885	20172	5836	1024
18:29	MA10935-ICSA2	1590	16865	5381	757
18:33	MA10935-ICSAB2	1578	16876	5359	744
18:38	MA10935-CCV12	1783	19171	5751	889

INTERNAL STANDARD SUMMARY

Login Number: FA6570
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA073013M1.ICP Date Analyzed: 07/30/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10935
Parameters: Na

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
18:42	MA10935-CCB12	1909	20545	5817	1068
18:47	MA10935-CCV13	1788	19186	5758	893
18:51	MA10935-CCB13	1906	20518	5824	1067

R = Reference for ISTD limits. ! = Outside limits.

LEGEND:

Istd#	Parameter	Limits
Istd#1	Yttrium (2243)	60-125 %
Istd#2	Yttrium (3600)	60-125 %
Istd#3	Yttrium (3710)	60-125 %
Istd#4	Indium	60-125 %

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: FA6570
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA073013M1.ICP Date Analyzed: 07/30/13 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA10935 Units: ug/l

Time: / Sample ID:			08:27 ICB1		09:03 CCB1		09:59 CCB2		10:52 CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	15	anr							
Antimony	6.0	1.3	anr							
Arsenic	10	1.6	anr							
Barium	200	1	anr							
Beryllium	4.0	.5	anr							
Cadmium	4.0	.5	anr							
Calcium	1000	50	anr							
Chromium	10	1.8	anr							
Cobalt	50	.5	anr							
Copper	25	1	anr							
Iron	300	29	anr							
Lead	5.0	1.1	anr							
Magnesium	5000	74	anr							
Manganese	15	.7	anr							
Molybdenum	50	.6	anr							
Nickel	40	.5	anr							
Potassium	10000	200	anr							
Selenium	10	2	anr							
Silver	10	.5	anr							
Sodium	10000	500	3.6	<10000	7.8	<10000	6.0	<10000	5.5	<10000
Strontium	10	.5	anr							
Thallium	10	1.3	anr							
Tin	50	.7	anr							
Titanium	10	.9								
Vanadium	50	.5	anr							
Zinc	20	3	anr							

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: FA6570
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA073013M1.ICP Date Analyzed: 07/30/13 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA10935 Units: ug/l

Time: / Sample ID:			11:45 CCB4		12:38 CCB5		13:32 CCB6		14:39 CCB7	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	15	anr							
Antimony	6.0	1.3	anr							
Arsenic	10	1.6	anr							
Barium	200	1	anr							
Beryllium	4.0	.5	anr							
Cadmium	4.0	.5	anr							
Calcium	1000	50	anr							
Chromium	10	1.8	anr							
Cobalt	50	.5	anr							
Copper	25	1	anr							
Iron	300	29	anr							
Lead	5.0	1.1	anr							
Magnesium	5000	74	anr							
Manganese	15	.7	anr							
Molybdenum	50	.6								
Nickel	40	.5	anr							
Potassium	10000	200	anr							
Selenium	10	2	anr							
Silver	10	.5	anr							
Sodium	10000	500	9.9	<10000	7.7	<10000	20.2	<10000	18.2	<10000
Strontium	10	.5	anr							
Thallium	10	1.3	anr							
Tin	50	.7								
Titanium	10	.9								
Vanadium	50	.5	anr							
Zinc	20	3	anr							

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: FA6570
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA073013M1.ICP Date Analyzed: 07/30/13 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA10935 Units: ug/l

Time: / Sample ID:			15:08 CCB8		16:01 CCB9		16:54 CCB10		17:48 CCB11	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	15	anr							
Antimony	6.0	1.3	anr							
Arsenic	10	1.6	anr							
Barium	200	1	anr							
Beryllium	4.0	.5	anr							
Cadmium	4.0	.5	anr							
Calcium	1000	50	anr							
Chromium	10	1.8	anr							
Cobalt	50	.5	anr							
Copper	25	1	anr							
Iron	300	29	anr							
Lead	5.0	1.1	anr							
Magnesium	5000	74	anr							
Manganese	15	.7	anr							
Molybdenum	50	.6								
Nickel	40	.5	anr							
Potassium	10000	200	anr							
Selenium	10	2	anr							
Silver	10	.5	anr							
Sodium	10000	500	7.7	<10000	3.9	<10000	1.5	<10000	8.0	<10000
Strontium	10	.5	anr							
Thallium	10	1.3	anr							
Tin	50	.7								
Titanium	10	.9								
Vanadium	50	.5	anr							
Zinc	20	3	anr							

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: FA6570
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA073013M1.ICP Date Analyzed: 07/30/13 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA10935 Units: ug/l

Time:			18:42	
Sample ID:			CCB12	
Metal	RL	IDL	raw	final
Aluminum	200	15	anr	
Antimony	6.0	1.3	anr	
Arsenic	10	1.6	anr	
Barium	200	1	anr	
Beryllium	4.0	.5	anr	
Cadmium	4.0	.5	anr	
Calcium	1000	50	anr	
Chromium	10	1.8	anr	
Cobalt	50	.5	anr	
Copper	25	1	anr	
Iron	300	29	anr	
Lead	5.0	1.1	anr	
Magnesium	5000	74	anr	
Manganese	15	.7	anr	
Molybdenum	50	.6		
Nickel	40	.5	anr	
Potassium	10000	200	anr	
Selenium	10	2	anr	
Silver	10	.5	anr	
Sodium	10000	500	3.6	<10000
Strontium	10	.5	anr	
Thallium	10	1.3	anr	
Tin	50	.7		
Titanium	10	.9		
Vanadium	50	.5	anr	
Zinc	20	3	anr	

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA6570
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA073013M1.ICP Date Analyzed: 07/30/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA10935 Units: ug/l

Time:		08:20			08:54			09:55	
Sample ID:	ICV	ICV1		CCV	CCV1		CCV	CCV2	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	anr								
Arsenic	anr								
Barium	anr								
Beryllium	anr								
Cadmium	anr								
Calcium	anr								
Chromium	anr								
Cobalt	anr								
Copper	anr								
Iron	anr								
Lead	anr								
Magnesium	anr								
Manganese	anr								
Molybdenum	anr								
Nickel	anr								
Potassium	anr								
Selenium	anr								
Silver	anr								
Sodium	40000	40200	100.5	40000	40100	100.3	40000	39500	98.8
Strontium	anr								
Thallium	anr								
Tin	anr								
Titanium									
Vanadium	anr								
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA6570
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA073013M1.ICP Date Analyzed: 07/30/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA10935 Units: ug/l

Time:		10:48			11:41			12:34	
Sample ID:	CCV	CCV3		CCV	CCV4		CCV	CCV5	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	anr								
Arsenic	anr								
Barium	anr								
Beryllium	anr								
Cadmium	anr								
Calcium	anr								
Chromium	anr								
Cobalt	anr								
Copper	anr								
Iron	anr								
Lead	anr								
Magnesium	anr								
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium	anr								
Selenium	anr								
Silver	anr								
Sodium	40000	39300	98.3	40000	39200	98.0	40000	39200	98.0
Strontium	anr								
Thallium	anr								
Tin									
Titanium									
Vanadium	anr								
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA6570
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA073013M1.ICP Date Analyzed: 07/30/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA10935 Units: ug/l

Time:		13:28			14:33			15:03	
Sample ID:	CCV	CCV6		CCV	CCV7		CCV	CCV8	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	anr								
Arsenic	anr								
Barium	anr								
Beryllium	anr								
Cadmium	anr								
Calcium	anr								
Chromium	anr								
Cobalt	anr								
Copper	anr								
Iron	anr								
Lead	anr								
Magnesium	anr								
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium	anr								
Selenium	anr								
Silver	anr								
Sodium	40000	39600	99.0	40000	39900	99.8	40000	39500	98.8
Strontium	anr								
Thallium	anr								
Tin									
Titanium									
Vanadium	anr								
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA6570
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA073013M1.ICP Date Analyzed: 07/30/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA10935 Units: ug/l

Time:		15:57			16:50			17:44	
Sample ID:	CCV	CCV9		CCV	CCV10		CCV	CCV11	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	anr								
Arsenic	anr								
Barium	anr								
Beryllium	anr								
Cadmium	anr								
Calcium	anr								
Chromium	anr								
Cobalt	anr								
Copper	anr								
Iron	anr								
Lead	anr								
Magnesium	anr								
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium	anr								
Selenium	anr								
Silver	anr								
Sodium	40000	39300	98.3	40000	39400	98.5	40000	39600	99.0
Strontium	anr								
Thallium	anr								
Tin									
Titanium									
Vanadium	anr								
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA6570
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA073013M1.ICP Date Analyzed: 07/30/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA10935 Units: ug/l

Time:		18:38	
Sample ID:	CCV	CCV12	
Metal	True	Results	% Rec
Aluminum	anr		
Antimony	anr		
Arsenic	anr		
Barium	anr		
Beryllium	anr		
Cadmium	anr		
Calcium	anr		
Chromium	anr		
Cobalt	anr		
Copper	anr		
Iron	anr		
Lead	anr		
Magnesium	anr		
Manganese	anr		
Molybdenum			
Nickel	anr		
Potassium	anr		
Selenium	anr		
Silver	anr		
Sodium	40000	39700	99.3
Strontium	anr		
Thallium	anr		
Tin			
Titanium			
Vanadium	anr		
Zinc	anr		

(*) Outside of QC limits
(anr) Analyte not requested

HIGH STANDARD CHECK SUMMARY

Login Number: FA6570
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA073013M1.ICP Date Analyzed: 07/30/13 Methods: SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA10935 Units: ug/l

Time:		08:14	
Sample ID:	HSTD	HSTD1	
Metal	True	Results	% Rec
Aluminum	anr		
Antimony	anr		
Arsenic	anr		
Barium	anr		
Beryllium	anr		
Cadmium	anr		
Calcium	anr		
Chromium	anr		
Cobalt	anr		
Copper	anr		
Iron	anr		
Lead	anr		
Magnesium	anr		
Manganese	anr		
Molybdenum	anr		
Nickel	anr		
Potassium	anr		
Selenium	anr		
Silver	anr		
Sodium	80000	80100	100.1
Strontium	anr		
Thallium	anr		
Tin	anr		
Titanium			
Vanadium	anr		
Zinc	anr		

(*) Outside of QC limits
(anr) Analyte not requested

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: FA6570
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA073013M1.ICP Date Analyzed: 07/30/13 Methods: SW846 6010C
QC Limits: CRI 70-130% CRIA 70-130% Run ID: MA10935 Units: ug/l

Time:			08:31		18:24	
Sample ID:	CRI	CRIA	CRIA1		CRIA2	
Metal	True	True	Results	% Rec	Results	% Rec
Aluminum	400	200	anr			
Antimony	10	5.0	anr			
Arsenic	20	10	anr			
Barium	400	200	anr			
Beryllium	10	5.0	anr			
Cadmium	10	5.0	anr			
Calcium	2000	1000	anr			
Chromium	20	10	anr			
Cobalt	100	50	anr			
Copper	50	25	anr			
Iron	600	300	anr			
Lead	10	5.0	anr			
Magnesium	10000	5000	anr			
Manganese	30	15	anr			
Molybdenum	100	50	anr			
Nickel	80	40	anr			
Potassium	20000	10000	anr			
Selenium	20	10	anr			
Silver	20	10	anr			
Sodium	20000	10000	9720	97.2	9790	97.9
Strontium	20	10	anr			
Thallium	20	10	anr			
Tin	100	50	anr			
Titanium	20	10				
Vanadium	100	50	anr			
Zinc	40	20	anr			

(*) Outside of QC limits
(anr) Analyte not requested

INTERFERING ELEMENT CHECK STANDARDS SUMMARY
Part 1 - ICSA and ICSAB Standards

Login Number: FA6570
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA073013M1.ICP Date Analyzed: 07/30/13 Methods: SW846 6010C
QC Limits: 80 to 120 % Recovery Run ID: MA10935 Units: ug/l

Time:			08:40		08:47		18:29		18:33	
Sample ID:	ICSA	ICSAB	ICSA1		ICSAB1		ICSA2		ICSAB2	
Metal	True	True	Results	% Rec	Results	% Rec	Results	% Rec	Results	% Rec
Aluminum	500000	500000	510000	102.0	512000	102.4	506000	101.2	506000	101.2
Antimony		1000	0.0		1010	101.0	3.3		1030	103.0
Arsenic		1000	0.60		1020	102.0	-0.90		1040	104.0
Barium		500	0.10		518	103.6	0.30		520	104.0
Beryllium		500	-0.10		504	100.8	-0.10		498	99.6
Cadmium		1000	0.0		911	91.1	-0.70		921	92.1
Calcium	500000	500000	493000	98.6	492000	98.4	485000	97.0	483000	96.6
Chromium		500	0.20		482	96.4	-0.30		476	95.2
Cobalt		500	1.4		455	91.0	1.4		458	91.6
Copper		500	0.0		536	107.2	0.0		547	109.4
Iron	200000	200000	188000	94.0	185000	92.5	183000	91.5	181000	90.5
Lead		1000	0.90		919	91.9	1.0		920	92.0
Magnesium	500000	500000	514000	102.8	512000	102.4	508000	101.6	505000	101.0
Manganese		500	0.50		492	98.4	0.20		492	98.4
Molybdenum		1000	0.60		941	94.1	1.1		947	94.7
Nickel		1000	0.20		892	89.2	0.30		905	90.5
Potassium			-33		-32		-16		2.9	
Selenium		1000	0.40		969	96.9	2.7		973	97.3
Silver		1000	0.20		1020	102.0	0.40		1010	101.0
Sodium			92.0		70.1		105		89.3	
Strontium		1000	12.0		1030	103.0	12.0		1030	103.0
Thallium		1000	0.0		902	90.2	-2.7		909	90.9
Tin		1000	4.9		909	90.9	5.2		918	91.8
Titanium		1000	-2.0		991	99.1	-1.2		1000	100.0
Vanadium		500	-0.60		483	96.6	0.40		484	96.8
Zinc		1000	4.6		927	92.7	4.7		929	92.9

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: FA6570
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

QC Batch ID: MP25566
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date:				07/26/13		07/26/13	
Metal	RL	IDL	MDL	MB raw	final	MB raw	final
Aluminum	200	15	15	4.0	<200	4.2	<200
Antimony	6.0	1.3	1.3	-1.0	<6.0	-1.5	<6.0
Arsenic	10	1.6	2.5	0.70	<10	0.90	<10
Barium	200	1	1				
Beryllium	4.0	.5	.5				
Cadmium	5.0	.5	.5	-0.10	<5.0	-0.20	<5.0
Calcium	1000	50	50	20.6	<1000	19.5	<1000
Chromium	10	1.8	2	-0.20	<10	-0.20	<10
Cobalt	50	.5	.5				
Copper	25	1	1				
Iron	300	29	29	30.8	<300	-4.9	<300
Lead	5.0	1.1	1.1				
Magnesium	5000	74	74	-15	<5000	-22	<5000
Manganese	15	.7	.7				
Molybdenum	50	.6	1				
Nickel	40	.5	.5				
Potassium	10000	200	200	-0.80	<10000	32.2	<10000
Selenium	10	2	2	1.5	<10	-0.70	<10
Silver	10	.5	.5				
Sodium	10000	500	500	200	<10000	141	<10000
Strontium	10	.5	.5				
Thallium	10	1.3	1.3				
Tin	50	.7	1.8				
Titanium	10	.9	1				
Vanadium	50	.5	1				
Zinc	20	3	5				

Associated samples MP25566: FA6570-1, FA6570-2, FA6570-3, FA6570-4

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FA6570
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

QC Batch ID: MP25566
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date:			07/26/13					07/26/13	
Metal	FA6731-2 Original	DUP	RPD	QC Limits	FA6731-2 Original	MS	Spikelot MPFLICP1	% Rec	QC Limits
Aluminum	40700	41400	1.7	0-20	40700	58300	27000	65.2N(b)	80-120
Antimony	0.00	0.0	NC	0-20	0.00	330	500	66.0N(b)	80-120
Arsenic	36.2	37.0	2.2	0-20	36.2	1540	2000	75.2N(b)	80-120
Barium	anr								
Beryllium									
Cadmium	0.0	23.3	1.7	0-20	0.0	53.5	50	59.6N(b)	80-120
Calcium	97600	97900	0.3	0-20	97600	111000	25000	53.6N(b)	80-120
Chromium	688	457	0.9	0-20	688	568	200	57.5N(b)	80-120
Cobalt									
Copper	anr								
Iron	509000	289000	0.0	0-20	509000	293000	26000	15.4 (c)	80-120
Lead	anr								
Magnesium	4700	4750	1.1	0-20	4700	19700	25000	60.0N(b)	80-120
Manganese	anr								
Molybdenum									
Nickel									
Potassium	15700	15600	0.6	0-20	15700	33900	25000	72.8N(b)	80-120
Selenium	4.4	5.7	25.7 (a)	0-20	4.4	1870	2000	93.3	80-120
Silver	anr								
Sodium	10000000004250000		4.1	0-20	10000000004120000		25000	160.0(c)	80-120
Strontium									
Thallium									
Tin									
Titanium									
Vanadium									
Zinc	anr								

Associated samples MP25566: FA6570-1, FA6570-2, FA6570-3, FA6570-4

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) RPD acceptable due to low duplicate and sample concentrations.
(b) Spike recovery indicates possible matrix interference.
(c) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FA6570
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

QC Batch ID: MP25566
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 07/26/13

Metal	FA6731-2 Original	MSD	Spikelot MPFLICP1	% Rec	MSD RPD	QC Limit
Aluminum	40700	58400	27000	65.6N(a)	0.2	20
Antimony	0.00	324	500	64.8N(a)	1.8	20
Arsenic	36.2	1510	2000	73.7N(a)	2.0	20
Barium	anr					
Beryllium						
Cadmium	0.0	53.4	50	59.4N(a)	0.2	20
Calcium	97600	112000	25000	57.6N(a)	0.9	20
Chromium	688	565	200	56.0N(a)	0.5	20
Cobalt						
Copper	anr					
Iron	509000	296000	26000	26.9 (b)	1.0	20
Lead	anr					
Magnesium	4700	19300	25000	58.4N(a)	2.1	20
Manganese	anr					
Molybdenum						
Nickel						
Potassium	15700	33600	25000	71.6N(a)	0.9	20
Selenium	4.4	1830	2000	91.3	2.2	20
Silver	anr					
Sodium	10000000004290000		25000	840.0(b)	4.0	20
Strontium						
Thallium						
Tin						
Titanium						
Vanadium						
Zinc	anr					

Associated samples MP25566: FA6570-1, FA6570-2, FA6570-3, FA6570-4

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) Spike recovery indicates possible matrix interference.
(b) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: FA6570
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

QC Batch ID: MP25566
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 07/26/13

Metal	BSP Result	Spikelot MPFLICP1	% Rec	QC Limits
Aluminum	27000	27000	100.0	80-120
Antimony	498	500	99.6	80-120
Arsenic	1970	2000	98.5	80-120
Barium	anr			
Beryllium				
Cadmium	49.6	50	99.2	80-120
Calcium	25600	25000	102.4	80-120
Chromium	210	200	105.0	80-120
Cobalt				
Copper	anr			
Iron	27300	26000	105.0	80-120
Lead	anr			
Magnesium	24500	25000	98.0	80-120
Manganese	anr			
Molybdenum				
Nickel				
Potassium	24700	25000	98.8	80-120
Selenium	1980	2000	99.0	80-120
Silver	anr			
Sodium	24900	25000	99.6	80-120
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc	anr			

Associated samples MP25566: FA6570-1, FA6570-2, FA6570-3, FA6570-4

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: FA6570
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

QC Batch ID: MP25566
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 07/26/13

Metal	FA6731-2 Original	SDL 1:5	%DIF	QC Limits
Aluminum	40700	54300	33.5*(a)	0-10
Antimony	0.00	0.00	NC	0-10
Arsenic	36.2	55.5	53.3 (b)	0-10
Barium	anr			
Beryllium				
Cadmium	0.00	21.1	11.0 (b)	0-10
Calcium	97600	138000	41.5*(a)	0-10
Chromium	688	668	47.3*(a)	0-10
Cobalt				
Copper	anr			
Iron	509000	439000	51.9*(a)	0-10
Lead	anr			
Magnesium	4700	6670	42.0*(a)	0-10
Manganese	anr			
Molybdenum				
Nickel				
Potassium	15700	19900	26.6*(a)	0-10
Selenium	4.40	19.5	343.2(b)	0-10
Silver	anr			
Sodium	10000000004650000		14.1 (b)	0-10
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc	anr			

Associated samples MP25566: FA6570-1, FA6570-2, FA6570-3, FA6570-4

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Serial dilution indicates possible matrix interference.
(b) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

POST DIGESTATE SPIKE SUMMARY

Login Number: FA6570
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

QC Batch ID: MP25566
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 07/26/13

Metal	Sample ml	Final ml	FA6731-2 Raw	Corr.**	PS ug/l	Spike ml	Spike ug/ml	Spike ug/l	% Rec	QC Limits
Aluminum	9.8	10	40710	39895.8	41630	0.2	125	2500	69.4*(a)	80-120
Antimony	9.8	10			60.3	0.2	5	100	60.3*(a)	80-120
Arsenic	9.8	10	36.2	35.476	111.5	0.2	5	100	76.0*(a)	80-120
Barium										
Beryllium										
Cadmium	9.8	10		23.226	53.1	0.2	2.5	50	59.7*(a)	80-120
Calcium	9.8	10	97550	95599	100300	0.2	250	5000	94.0	80-120
Chromium	9.8	10	688.2	444.332	477.7	0.2	2.5	50	66.7*(a)	80-120
Cobalt										
Copper										
Iron	9.8	10	509100	282926	285600	0.2	150	3000	89.1	80-120
Lead										
Magnesium	9.8	10	4701	4606.98	7669	0.2	250	5000	61.2*(a)	80-120
Manganese										
Molybdenum										
Nickel										
Potassium	9.8	10	15720	15405.6	22650	0.2	500	10000	72.4*(a)	80-120
Selenium	9.8	10	4.4	4.312	97.3	0.2	5	100	93.0	80-120
Silver										
Sodium	9.8	10	9999990003997420		4095000	0.2	500	10000	975.8*(a	80-120
Strontium										
Thallium										
Tin										
Titanium										
Vanadium										
Zinc										

Associated samples MP25566: FA6570-1, FA6570-2, FA6570-3, FA6570-4

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(**) Corr. sample result = Raw * (sample volume / final volume)
(anr) Analyte not requested
(a) Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

Southeast ACCUTEST LABORATORIES

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries
- Instrument Runlogs/QC

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: FA6570
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Alkalinity, Total as CaCO3	GN56879	5.0	2.6	mg/l	250	249	99.6	90-113%
Alkalinity, Total as CaCO3	GN56881	25	0.0	mg/l	250	251	100.4	90-113%
Chloride	GP22134/GN56897	2.0	0.0	mg/l	50	50.4	100.8	90-110%
Chloride	GP22142/GN56901	2.0	0.0	mg/l	50	50.4	100.8	90-110%
Fluoride	GP22207/GN57083	0.20	0.0	mg/l	2.5	2.61	104.4	90-110%
Nitrogen, Nitrate	GP22134/GN56897	0.10	0.0	mg/l	2.5	2.60	104.0	90-110%
Nitrogen, Nitrate	GP22142/GN56901	0.10	0.0	mg/l	2.5	2.57	102.8	90-110%
Nitrogen, Nitrite	GP22134/GN56897	0.10	0.0	mg/l	2.5	2.66	106.4	90-110%
Phosphate, Ortho	GP22120/GN56869	0.10	0.0	mg/l	.300	0.31	104.0	83-116%
Phosphorus, Total	GP22149/GN56927	0.10	0.0	mg/l	.300	0.28	92.9	81-118%
Solids, Total Dissolved	GN56888	100	0.0	mg/l				
Specific Conductivity	GN56847	1.0	0.0	umhos/cm				
Sulfate	GP22134/GN56897	2.0	0.0	mg/l	50	51.1	102.2	90-110%
Sulfate	GP22142/GN56901	2.0	0.0	mg/l	50	51.2	102.4	90-110%

Associated Samples:
Batch GN56847: FA6570-1, FA6570-2, FA6570-3, FA6570-4
Batch GN56879: FA6570-3, FA6570-4
Batch GN56881: FA6570-1, FA6570-2
Batch GN56888: FA6570-1, FA6570-2, FA6570-3, FA6570-4
Batch GP22120: FA6570-1F, FA6570-2F, FA6570-3F, FA6570-4F
Batch GP22134: FA6570-3, FA6570-4
Batch GP22142: FA6570-1, FA6570-2
Batch GP22149: FA6570-1, FA6570-2, FA6570-3, FA6570-4
Batch GP22207: FA6570-1, FA6570-2, FA6570-3, FA6570-4
(*) Outside of QC limits

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: FA6570
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Alkalinity, Total as CaCO3	GN56879	FA6447-2	mg/l	48.6	48.4	0.4	0-20%
Alkalinity, Total as CaCO3	GN56881	FA6570-1	mg/l	623	625	0.2	0-20%
Solids, Total Dissolved	GN56888	FA6570-1	mg/l	4670	4670	0.0	0-5%
Specific Conductivity	GN56847	FA6569-1	umhos/cm	12900	12800	0.4	0-10%
pH	GN56841	FA6569-2	su	6.68	6.68	0.0	0-10%

Associated Samples:
Batch GN56841: FA6570-1, FA6570-2, FA6570-3, FA6570-4
Batch GN56847: FA6570-1, FA6570-2, FA6570-3, FA6570-4
Batch GN56879: FA6570-3, FA6570-4
Batch GN56881: FA6570-1, FA6570-2
Batch GN56888: FA6570-1, FA6570-2, FA6570-3, FA6570-4
(*) Outside of QC limits

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: FA6570
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Chloride	GP22134/GN56897	FA6522-3	mg/l	205	50	249	88.0(a)	90-110%
Chloride	GP22142/GN56901	FA6621-4	mg/l	26.6	50	75.2	97.2	90-110%
Fluoride	GP22207/GN57083	FA6608-1	mg/l	0.43	2.5	4.1	146.8N(b)	90-110%
Nitrogen, Nitrate	GP22134/GN56897	FA6522-3	mg/l	0.50 U	2.5	2.6	104.0	90-110%
Nitrogen, Nitrate	GP22142/GN56901	FA6621-4	mg/l	3.2	2.5	5.7	100.0	90-110%
Nitrogen, Nitrite	GP22134/GN56897	FA6522-3	mg/l	0.50 U	2.5	2.6	104.0	90-110%
Phosphate, Ortho	GP22120/GN56869	FA6522-3F	mg/l	0.026	.300	0.32	98.1	83-116%
Phosphorus, Total	GP22149/GN56927	FA6570-2	mg/l	0.17	.300	0.50	110.0	81-118%
Sulfate	GP22134/GN56903	FA6522-3	mg/l	1110	50	1090	-40.0(a)	90-110%
Sulfate	GP22142/GN56901	FA6621-4	mg/l	268	50	323	110.0	90-110%

Associated Samples:
Batch GP22120: FA6570-1F, FA6570-2F, FA6570-3F, FA6570-4F
Batch GP22134: FA6570-3, FA6570-4
Batch GP22142: FA6570-1, FA6570-2
Batch GP22149: FA6570-1, FA6570-2, FA6570-3, FA6570-4
Batch GP22207: FA6570-1, FA6570-2, FA6570-3, FA6570-4
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(a) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.
(b) Spike recovery indicates possible matrix interference.

MATRIX SPIKE DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: FA6570
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MSD Result	RPD	QC Limit
Chloride	GP22134/GN56897	FA6522-3	mg/l	205	50	246	1.2	20%
Chloride	GP22142/GN56901	FA6621-4	mg/l	26.6	50	77.9	3.5	20%
Fluoride	GP22207/GN57083	FA6608-1	mg/l	0.43	2.5	4.1	0.0	20%
Nitrogen, Nitrate	GP22134/GN56897	FA6522-3	mg/l	0.50 U	2.5	2.6	0.0	20%
Nitrogen, Nitrate	GP22142/GN56901	FA6621-4	mg/l	3.2	2.5	5.9	3.4	20%
Nitrogen, Nitrite	GP22134/GN56897	FA6522-3	mg/l	0.50 U	2.5	2.8	7.4	20%
Phosphate, Ortho	GP22120/GN56869	FA6522-3F	mg/l	0.026	.300mg/l	0.300	6.6	26%
Phosphorus, Total	GP22149/GN56927	FA6570-2	mg/l	0.17	.300	0.491	1.7	22%
Sulfate	GP22134/GN56903	FA6522-3	mg/l	1110	50	1100	0.9	20%
Sulfate	GP22142/GN56901	FA6621-4	mg/l	268	50	330	2.1	20%

Associated Samples:
Batch GP22120: FA6570-1F, FA6570-2F, FA6570-3F, FA6570-4F
Batch GP22134: FA6570-3, FA6570-4
Batch GP22142: FA6570-1, FA6570-2
Batch GP22149: FA6570-1, FA6570-2, FA6570-3, FA6570-4
Batch GP22207: FA6570-1, FA6570-2, FA6570-3, FA6570-4
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA6570
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: 313190701.TXT Date Analyzed: 07/19/13 Methods: EPA 300/SW846 9056A
Analyst: AC Run ID: GN56897
Parameters: Chloride,Nitrogen, Nitrate,Sulfate

Time	Sample Description	Dilution Factor	PS Recov	Comments
08:49	GN56897-CCV1	1		
09:05	GP22134-MB1	1		
09:20	GP22134-B1	1		
10:08	ZZZZZZ	5		
10:24	ZZZZZZ	10		
10:40	ZZZZZZ	10		
10:56	ZZZZZZ	50		
11:12	ZZZZZZ	50		
11:28	ZZZZZZ	10		
11:44	GN56897-CCV2	1		
12:00	GN56897-CCB1	1		
12:16	FA6570-3	1		
12:31	ZZZZZZ	10		
12:47	FA6570-4	1		
13:03	ZZZZZZ	1		
13:19	ZZZZZZ	25		
13:35	ZZZZZZ	1		
13:51	ZZZZZZ	10		
14:07	FA6522-3	10		(sample used for QC only; not part of login FA6570)
14:23	ZZZZZZ	50		
14:39	ZZZZZZ	100		
14:55	GN56897-CCV3	1		
15:11	GN56897-CCB2	1		
15:27	ZZZZZZ	25		
15:43	ZZZZZZ	100		
16:00	FA6574-1	2		(sample used for QC only; not part of login FA6570)
16:16	ZZZZZZ	2		
16:32	ZZZZZZ	2		
16:57	GP22134-S1	10		
17:13	GP22134-S2	10		
17:29	GP22134-S3	2		
17:45	GP22134-S4	2		
18:01	GN56897-CCV4	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA6570
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: 313190701.TXT Date Analyzed: 07/19/13 Methods: EPA 300/SW846 9056A
Analyst: AC Run ID: GN56897
Parameters: Chloride,Nitrogen, Nitrate,Sulfate

Time	Sample Description	Dilution Factor	PS Recov	Comments
18:17	GP22137-MB1	1		
18:33	GP22137-B1	1		
19:21	FA6574-4	5		(sample used for QC only; not part of login FA6570)
19:37	ZZZZZZ	5		
19:53	ZZZZZZ	2		
20:09	ZZZZZZ	5		
20:24	ZZZZZZ	5		
20:40	ZZZZZZ	25		
20:56	GN56897-CCV5	1		
21:12	GN56897-CCB3	1		
21:28	ZZZZZZ	25		
21:44	ZZZZZZ	25		
22:00	ZZZZZZ	25		
22:16	ZZZZZZ	25		
22:32	FA6575-11	50		(sample used for QC only; not part of login FA6570)
22:48	ZZZZZZ	25		
23:04	ZZZZZZ	100		
23:19	ZZZZZZ	5		
23:35	ZZZZZZ	50		
23:51	ZZZZZZ	25		
00:07	GN56897-CCV6	1		
00:23	GN56897-CCB4	1		
00:39	ZZZZZZ	10		
00:55	ZZZZZZ	10		
01:11	ZZZZZZ	1		
01:27	ZZZZZZ	25		
01:43	GP22137-S1	5		
01:59	GP22137-S2	5		
02:15	GP22137-S3	50		
02:30	GP22137-S4	50		
02:46	GN56897-CCV7	1		
03:02	GP22138-MB1	1		
03:18	GP22138-B1	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA6570
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: 313190701.TXT Date Analyzed: 07/19/13 Methods: EPA 300/SW846 9056A
Analyst: AC Run ID: GN56897
Parameters: Chloride,Nitrogen, Nitrate,Sulfate

Time	Sample Description	Dilution Factor	PS Recov	Comments
04:06	ZZZZZZ	10		
04:22	ZZZZZZ	10		
04:38	ZZZZZZ	1		
04:54	FA6575-8	5		(sample used for QC only; not part of login FA6570)
05:10	GP22138-S1	5		
05:26	GP22138-S2	5		
05:41	GN56897-CCV8	1		
05:57	GN56897-CCB5	1		
06:13	ZZZZZZ	50		
06:29	ZZZZZZ	50		
06:45	GN56897-CCV9	1		
07:01	GN56897-CCB6	1		

Refer to raw data for calibration curve and standards.

Instrument QC Summary
Inorganics Analyses

Login Number: FA6570
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: 313190701.TXT Date Analyzed: 07/19/13 Methods: EPA 300/SW846 9056A
Run ID: GN56897 Units: mg/l

Sample Number	Parameter	Result	RL	IDL/MDL	True Value	% Recov.	QC Limits
GN56897-CCV1	Chloride	51.6	2.0	0.80	50	103.2	90-110
GN56897-CCV1	Nitrogen, Nitrate	2.6	0.10	0.050	2.5	104.0	90-110
GN56897-CCV1	Sulfate	50.9	2.0	0.60	50	101.8	90-110
GN56897-CCV2	Chloride	51.6	2.0	0.80	50	103.2	90-110
GN56897-CCV2	Nitrogen, Nitrate	2.6	0.10	0.050	2.5	104.0	90-110
GN56897-CCV2	Sulfate	51.0	2.0	0.60	50	102.0	90-110
GN56897-CCB1	Chloride	0.80 U	2.0	0.80			
GN56897-CCB1	Nitrogen, Nitrate	0.050 U	0.10	0.050			
GN56897-CCB1	Sulfate	0.60 U	2.0	0.60			
GN56897-CCV3	Chloride	51.7	2.0	0.80	50	103.4	90-110
GN56897-CCV3	Nitrogen, Nitrate	2.6	0.10	0.050	2.5	104.0	90-110
GN56897-CCV3	Sulfate	51.0	2.0	0.60	50	102.0	90-110
GN56897-CCB2	Chloride	0.80 U	2.0	0.80			
GN56897-CCB2	Nitrogen, Nitrate	0.050 U	0.10	0.050			
GN56897-CCB2	Sulfate	0.60 U	2.0	0.60			
GN56897-CCV4	Chloride	51.6	2.0	0.80	50	103.2	90-110
GN56897-CCV4	Nitrogen, Nitrate	2.6	0.10	0.050	2.5	104.0	90-110
GN56897-CCV4	Sulfate	50.9	2.0	0.60	50	101.8	90-110
GN56897-CCV5	Chloride	51.6	2.0	0.80	50	103.2	90-110
GN56897-CCV5	Nitrogen, Nitrate	2.6	0.10	0.050	2.5	104.0	90-110
GN56897-CCV5	Sulfate	50.9	2.0	0.60	50	101.8	90-110
GN56897-CCB3	Chloride	0.80 U	2.0	0.80			
GN56897-CCB3	Nitrogen, Nitrate	0.050 U	0.10	0.050			
GN56897-CCB3	Sulfate	0.60 U	2.0	0.60			
GN56897-CCV6	Chloride	51.5	2.0	0.80	50	103.0	90-110
GN56897-CCV6	Nitrogen, Nitrate	2.6	0.10	0.050	2.5	104.0	90-110
GN56897-CCV6	Sulfate	50.9	2.0	0.60	50	101.8	90-110
GN56897-CCB4	Chloride	0.80 U	2.0	0.80			
GN56897-CCB4	Nitrogen, Nitrate	0.050 U	0.10	0.050			
GN56897-CCB4	Sulfate	0.60 U	2.0	0.60			
GN56897-CCV7	Chloride	51.6	2.0	0.80	50	103.2	90-110
GN56897-CCV7	Nitrogen, Nitrate	2.6	0.10	0.050	2.5	104.0	90-110
GN56897-CCV7	Sulfate	50.9	2.0	0.60	50	101.8	90-110
GN56897-CCV8	Chloride	51.6	2.0	0.80	50	103.2	90-110
GN56897-CCV8	Nitrogen, Nitrate	2.6	0.10	0.050	2.5	104.0	90-110
GN56897-CCV8	Sulfate	50.8	2.0	0.60	50	101.6	90-110
GN56897-CCB5	Chloride	0.80 U	2.0	0.80			
GN56897-CCB5	Nitrogen, Nitrate	0.050 U	0.10	0.050			
GN56897-CCB5	Sulfate	0.60 U	2.0	0.60			
GN56897-CCV9	Chloride	51.5	2.0	0.80	50	103.0	90-110
GN56897-CCV9	Nitrogen, Nitrate	2.6	0.10	0.050	2.5	104.0	90-110
GN56897-CCV9	Sulfate	50.9	2.0	0.60	50	101.8	90-110
GN56897-CCB6	Chloride	0.80 U	2.0	0.80			
GN56897-CCB6	Nitrogen, Nitrate	0.050 U	0.10	0.050			
GN56897-CCB6	Sulfate	0.60 U	2.0	0.60			

(!) Outside of QC limits

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA6570
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: 313200701.TXT Date Analyzed: 07/20/13 Methods: EPA 300/SW846 9056A
Analyst: AC Run ID: GN56901
Parameters: Chloride,Nitrogen, Nitrate,Sulfate

Time	Sample Description	Dilution Factor	PS Recov	Comments
08:21	GN56901-CCV1	1		
08:36	GP22141-MB1	1		
08:52	GP22141-B1	1		
09:40	ZZZZZZ	25		
09:56	ZZZZZZ	50		
10:12	FA6576-3	50		(sample used for QC only; not part of login FA6570)
10:28	ZZZZZZ	10		
10:44	ZZZZZZ	10		
11:00	ZZZZZZ	1		
11:16	GN56901-CCV2	1		
11:31	GN56901-CCB1	1		
11:47	ZZZZZZ	25		
12:03	ZZZZZZ	25		
12:19	ZZZZZZ	25		
12:35	ZZZZZZ	50		
12:51	ZZZZZZ	10		
13:07	ZZZZZZ	10		
13:23	ZZZZZZ	1		
13:39	FA6575-17	5		(sample used for QC only; not part of login FA6570)
13:55	ZZZZZZ	50		
14:11	ZZZZZZ	50		
14:26	GN56901-CCV3	1		
14:42	GN56901-CCB2	1		
14:58	ZZZZZZ	50		
15:14	ZZZZZZ	1		
15:30	ZZZZZZ	25		
15:46	ZZZZZZ	50		
16:02	GP22141-S1	50		
16:18	GP22141-S2	50		
16:34	GP22141-S3	5		
16:50	GP22141-S4	5		
17:06	GN56901-CCV4	1		
17:22	GP22142-MB1	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA6570
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: 313200701.TXT Date Analyzed: 07/20/13 Methods: EPA 300/SW846 9056A
Analyst: AC Run ID: GN56901
Parameters: Chloride,Nitrogen, Nitrate,Sulfate

Time	Sample Description	Dilution Factor	PS Recov	Comments
17:37	GP22142-B1	1		
18:25	FA6570-1	25		
18:41	FA6570-2	25		
18:57	ZZZZZZ	25		
19:13	FA6621-4	5		(sample used for QC only; not part of login FA6570)
19:29	GP22142-S1	5		
19:45	GP22142-S2	5		
20:01	GN56901-CCV5	1		
20:16	GN56901-CCB3	1		

Refer to raw data for calibration curve and standards.

Instrument QC Summary
Inorganics Analyses

Login Number: FA6570
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: 313200701.TXT Date Analyzed: 07/20/13 Methods: EPA 300/SW846 9056A
Run ID: GN56901 Units: mg/l

Sample Number	Parameter	Result	RL	IDL/MDL	True Value	% Recov.	QC Limits
GN56901-CCV1	Chloride	51.5	2.0	0.80	50	103.0	90-110
GN56901-CCV1	Nitrogen, Nitrate	2.6	0.10	0.050	2.5	104.0	90-110
GN56901-CCV1	Sulfate	50.8	2.0	0.60	50	101.6	90-110
GN56901-CCV2	Chloride	51.5	2.0	0.80	50	103.0	90-110
GN56901-CCV2	Nitrogen, Nitrate	2.6	0.10	0.050	2.5	104.0	90-110
GN56901-CCV2	Sulfate	51.0	2.0	0.60	50	102.0	90-110
GN56901-CCB1	Chloride	0.80 U	2.0	0.80			
GN56901-CCB1	Nitrogen, Nitrate	0.050 U	0.10	0.050			
GN56901-CCB1	Sulfate	0.60 U	2.0	0.60			
GN56901-CCV3	Chloride	51.5	2.0	0.80	50	103.0	90-110
GN56901-CCV3	Nitrogen, Nitrate	2.6	0.10	0.050	2.5	104.0	90-110
GN56901-CCV3	Sulfate	50.7	2.0	0.60	50	101.4	90-110
GN56901-CCB2	Chloride	0.80 U	2.0	0.80			
GN56901-CCB2	Nitrogen, Nitrate	0.050 U	0.10	0.050			
GN56901-CCB2	Sulfate	0.60 U	2.0	0.60			
GN56901-CCV4	Chloride	51.5	2.0	0.80	50	103.0	90-110
GN56901-CCV4	Nitrogen, Nitrate	2.6	0.10	0.050	2.5	104.0	90-110
GN56901-CCV4	Sulfate	50.8	2.0	0.60	50	101.6	90-110
GN56901-CCV5	Chloride	51.6	2.0	0.80	50	103.2	90-110
GN56901-CCV5	Nitrogen, Nitrate	2.6	0.10	0.050	2.5	104.0	90-110
GN56901-CCV5	Sulfate	51.0	2.0	0.60	50	102.0	90-110
GN56901-CCB3	Chloride	0.80 U	2.0	0.80			
GN56901-CCB3	Nitrogen, Nitrate	0.050 U	0.10	0.050			
GN56901-CCB3	Sulfate	0.60 U	2.0	0.60			

(!) Outside of QC limits

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA6570
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: 313220701.TXT Date Analyzed: 07/22/13 Methods: EPA 300/SW846 9056A
Analyst: AC Run ID: GN56903
Parameters: Sulfate

Time	Sample Description	Dilution Factor	PS Recov	Comments
13:22	GN56903-CCV1	1		
14:41	ZZZZZZ	50		
14:57	ZZZZZZ	50		
15:13	ZZZZZZ	25		
15:29	ZZZZZZ	50		
15:45	ZZZZZZ	50		
16:00	ZZZZZZ	50		
16:16	GN56903-CCV2	1		
16:32	GN56903-CCB1	1		
16:48	ZZZZZZ	50		
17:04	ZZZZZZ	2		
17:20	ZZZZZZ	10		
17:52	GP22109-S5	5		
18:08	GP22109-S6	5		
18:24	ZZZZZZ	25		
18:40	FA6508-4	25		(sample used for QC only; not part of login FA6570)
18:55	ZZZZZZ	10		
19:11	ZZZZZZ	25		
19:27	GN56903-CCV3	1		
19:43	GN56903-CCB2	1		
19:59	GP22112-S1	25		
20:15	GP22112-S2	25		
20:31	ZZZZZZ	5		
20:47	ZZZZZZ	10		
21:03	ZZZZZZ	5		
21:19	ZZZZZZ	2		
21:35	ZZZZZZ	50		
22:06	GN56903-CCV4	1		
23:26	ZZZZZZ	25		
23:42	ZZZZZZ	50		
23:58	ZZZZZZ	50		
00:14	FA6522-3	25		(sample used for QC only; not part of login FA6570)
00:30	GP22134-S1	25		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA6570
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: 313220701.TXT Date Analyzed: 07/22/13 Methods: EPA 300/SW846 9056A
Analyst: AC Run ID: GN56903
Parameters: Sulfate

Time	Sample Description	Dilution Factor	PS Recov	Comments
00:46	GP22134-S2	25		
01:02	GN56903-CCV5	1		
01:17	GN56903-CCB3	1		

Refer to raw data for calibration curve and standards.

Instrument QC Summary
Inorganics Analyses

Login Number: FA6570
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: 313220701.TXT Date Analyzed: 07/22/13 Methods: EPA 300/SW846 9056A
Run ID: GN56903 Units: mg/l

Sample Number	Parameter	Result	RL	IDL/MDL	True Value	% Recov.	QC Limits
GN56903-CCV1	Sulfate	50.9	2.0	0.60	50	101.8	90-110
GN56903-CCV2	Sulfate	50.9	2.0	0.60	50	101.8	90-110
GN56903-CCB1	Sulfate	0.60 U	2.0	0.60			
GN56903-CCV3	Sulfate	50.8	2.0	0.60	50	101.6	90-110
GN56903-CCB2	Sulfate	0.60 U	2.0	0.60			
GN56903-CCV4	Sulfate	50.0	2.0	0.60	50	100.0	90-110
GN56903-CCV5	Sulfate	49.5	2.0	0.60	50	99.0	90-110
GN56903-CCB3	Sulfate	0.60 U	2.0	0.60			

(!) Outside of QC limits

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA6570
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: 313230701.TXT Date Analyzed: 07/23/13 Methods: EPA 300/SW846 9056A
Analyst: AC Run ID: GN56951
Parameters: Sulfate

Time	Sample Description	Dilution Factor	PS Recov	Comments
10:24	GN56951-CCV1	1		
10:39	GP22156-MB1	1		
10:55	GP22156-B1	1		
11:43	ZZZZZZ	25		
12:00	ZZZZZZ	10		
12:17	ZZZZZZ	1		
12:34	ZZZZZZ	1		
12:51	ZZZZZZ	1		
13:07	ZZZZZZ	1		
13:24	GN56951-CCV2	1		
13:42	GN56951-CCB1	1		
13:59	ZZZZZZ	5		
14:15	FA6655-2	5		(sample used for QC only; not part of login FA6570)
14:32	FA6664-1	2		(sample used for QC only; not part of login FA6570)
14:49	GP22156-S1	2		
15:06	GP22156-S2	2		
15:22	ZZZZZZ	25		
15:38	ZZZZZZ	25		
15:54	FA6570-2	50		
16:42	GN56951-CCV3	1		
16:58	GN56951-CCB2	1		

Refer to raw data for calibration curve and standards.

Instrument QC Summary
Inorganics Analyses

Login Number: FA6570
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: 313230701.TXT Date Analyzed: 07/23/13 Methods: EPA 300/SW846 9056A
Run ID: GN56951 Units: mg/l

Sample Number	Parameter	Result	RL	IDL/MDL	True Value	% Recov.	QC Limits
GN56951-CCV1	Sulfate	51.1	2.0	0.60	50	102.2	90-110
GN56951-CCV2	Sulfate	51.2	2.0	0.60	50	102.4	90-110
GN56951-CCB1	Sulfate	0.60 U	2.0	0.60			
GN56951-CCV3	Sulfate	51.0	2.0	0.60	50	102.0	90-110
GN56951-CCB2	Sulfate	0.60 U	2.0	0.60			

(!) Outside of QC limits

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA6570
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: 313240701.TXT Date Analyzed: 07/24/13 Methods: EPA 300/SW846 9056A
Analyst: AC Run ID: GN56962
Parameters: Sulfate

Time	Sample Description	Dilution Factor	PS Recov	Comments
10:37	GN56962-CCV1	1		
10:53	GP22160-MB1	1		
11:09	GP22160-B1	1		
11:57	ZZZZZZ	5		
12:28	FA6699-1	5		(sample used for QC only; not part of login FA6570)
12:44	ZZZZZZ	1		
13:00	ZZZZZZ	1		
13:16	ZZZZZZ	1		
13:32	GN56962-CCV2	1		
13:48	GN56962-CCB1	1		
14:04	ZZZZZZ	5		
14:20	ZZZZZZ	5		
14:36	ZZZZZZ	5		
14:51	ZZZZZZ	5		
15:07	GP22160-S1	5		
15:23	GP22160-S2	5		
15:39	ZZZZZZ	5		
15:55	ZZZZZZ	2		
16:11	ZZZZZZ	2		
16:27	ZZZZZZ	1		
16:43	GN56962-CCV3	1		
16:59	GN56962-CCB2	1		
17:15	ZZZZZZ	2		
17:30	ZZZZZZ	5		
17:46	ZZZZZZ	2		
18:02	ZZZZZZ	1		
18:18	ZZZZZZ	1		
18:34	ZZZZZZ	1		
18:50	GP22156-S3	5		
19:06	GP22156-S4	5		
19:22	FA6570-3	50		
19:38	GN56962-CCV4	1		
19:54	GP22155-MB1	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA6570
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: 313240701.TXT Date Analyzed: 07/24/13 Methods: EPA 300/SW846 9056A
Analyst: AC Run ID: GN56962
Parameters: Sulfate

Time	Sample Description	Dilution Factor	PS Recov	Comments
20:10	GP22155-B1	1		
20:25	TC33800-1	5		(sample used for QC only; not part of login FA6570)
20:41	ZZZZZZ	10		
20:57	ZZZZZZ	10		
21:13	ZZZZZZ	10		
21:29	GP22155-S1	5		
21:45	GP22155-S2	5		
22:17	GN56962-CCV5	1		
22:33	GN56962-CCB3	1		

Refer to raw data for calibration curve and standards.

Instrument QC Summary
Inorganics Analyses

Login Number: FA6570
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: 313240701.TXT Date Analyzed: 07/24/13 Methods: EPA 300/SW846 9056A
Run ID: GN56962 Units: mg/l

Sample Number	Parameter	Result	RL	IDL/MDL	True Value	% Recov.	QC Limits
GN56962-CCV1	Sulfate	51.4	2.0	0.60	50	102.8	90-110
GN56962-CCV2	Sulfate	50.4	2.0	0.60	50	100.8	90-110
GN56962-CCB1	Sulfate	0.60 U	2.0	0.60			
GN56962-CCV3	Sulfate	51.4	2.0	0.60	50	102.8	90-110
GN56962-CCB2	Sulfate	0.60 U	2.0	0.60			
GN56962-CCV4	Sulfate	51.1	2.0	0.60	50	102.2	90-110
GN56962-CCV5	Sulfate	51.2	2.0	0.60	50	102.4	90-110
GN56962-CCB3	Sulfate	0.60 U	2.0	0.60			

(!) Outside of QC limits

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA6570
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: 213310701.TXT Date Analyzed: 07/31/13 Methods: EPA 300/SW846 9056A
Analyst: AA Run ID: GN57083
Parameters: Fluoride

Time	Sample Description	Dilution Factor	PS Recov	Comments
09:25	GN57083-CCV1	1		
09:41	GP22207-MB1	1		
09:58	GP22207-B1	1		
10:49	FA6570-1	25		
11:06	FA6570-2	25		
11:22	FA6570-3	25		
11:39	FA6570-4	1		
11:56	FA6608-1	1		(sample used for QC only; not part of login FA6570)
12:13	FA6608-2	1		(sample used for QC only; not part of login FA6570)
12:30	GN57083-CCV2	1		
12:47	GN57083-CCB1	1		
13:04	ZZZZZZ	1		
13:21	ZZZZZZ	1		
13:38	ZZZZZZ	1		
13:55	ZZZZZZ	25		
14:12	ZZZZZZ	10		
14:29	ZZZZZZ	10		
14:45	ZZZZZZ	5		
15:02	GP22207-S1	1		
15:41	GP22207-S2	1		
16:25	GN57083-CCV3	1		
16:42	GN57083-CCB2	1		
16:59	GP22207-S3	1		
17:16	GP22207-S4	1		
17:50	GP22198-S1	1		
18:07	GP22198-S2	1		
18:24	GN57083-CCV4	1		
18:40	GN57083-CCB3	1		

Refer to raw data for calibration curve and standards.

Instrument QC Summary
Inorganics Analyses

Login Number: FA6570
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: 213310701.TXT Date Analyzed: 07/31/13 Methods: EPA 300/SW846 9056A
Run ID: GN57083 Units: mg/l

Sample Number	Parameter	Result	RL	IDL/MDL	True Value	% Recov.	QC Limits
GN57083-CCV1	Fluoride	2.5	0.20	0.060	2.5	100.0	90-110
GN57083-CCV2	Fluoride	2.7	0.20	0.060	2.5	108.0	90-110
GN57083-CCB1	Fluoride	0.060 U	0.20	0.060			
GN57083-CCV3	Fluoride	2.7	0.20	0.060	2.5	108.0	90-110
GN57083-CCB2	Fluoride	0.060 U	0.20	0.060			
GN57083-CCV4	Fluoride	2.5	0.20	0.060	2.5	100.0	90-110
GN57083-CCB3	Fluoride	0.060 U	0.20	0.060			

(!) Outside of QC limits

Southeast
ACCUTEST LABORATORIES

08/01/13

Technical Report for

WSP Environment & Energy

Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID 36785.01

Accutest Job Number: FA6621

Sampling Dates: 07/18/13 - 07/19/13

Report to:

WSP Environment & Energy
205 West Park Street
Jackson, MO 63755
tim.huff@wspgroup.com

ATTN: Tim Huff

Total number of pages in report: **87**

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Harry Behzadi, Ph.D.
Laboratory Director

Client Service contact: Andrea Colby 407-425-6700

Certifications: FL (E83510), LA (03051), KS (E-10327), IA (366), IL (200063), NC (573), NJ (FL002), SC (96038001) DoD ELAP (L-A-B L2229), CA (04226CA), TX (T104704404), AK, AR, GA, KY, MA, NV, OK, UT, VA, WA, WI

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Sample Summary

WSP Environment & Energy

Job No: FA6621

Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID
Project No: 36785.01

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA6621-1	07/19/13	09:55	TP	07/20/13	AQ	Ground Water	MWA-110
FA6621-1F	07/19/13	09:55	TP	07/20/13	AQ	Groundwater Filtered	MWA-110
FA6621-2	07/18/13	14:00	TP	07/20/13	AQ	Ground Water	DUP07182013
FA6621-2F	07/18/13	14:00	TP	07/20/13	AQ	Groundwater Filtered	DUP07182013
FA6621-3	07/18/13	13:35	TP	07/20/13	AQ	Ground Water	A-35-155
FA6621-3F	07/18/13	13:35	TP	07/20/13	AQ	Groundwater Filtered	A-35-155
FA6621-4	07/19/13	11:25	TP	07/20/13	AQ	Ground Water	MWB-120
FA6621-4F	07/19/13	11:25	TP	07/20/13	AQ	Groundwater Filtered	MWB-120

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: WSP Environment & Energy **Job:** FA6621

Site: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID **Report Date:** 8/1/2013 2:34:32 PM

4 Sample(s) were collected on/between 07/18/2013 and 07/19/2013 and were received at Accutest SE on 07/20/2013 properly preserved, at 2.8 Deg. C and intact. These Samples received an Accutest job number of FA6621. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Metals By Method SW846 6010C

Matrix: AQ **Batch ID:** MP25574

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA6794-2DUP, FA6794-2MS, FA6794-2MSD, FA6794-2PS, FA6794-2SDL were used as the QC samples for metals.

RPD(s) for Duplicate for Chromium, Selenium are outside control limits for sample MP25574-D1. RPD acceptable due to low duplicate and sample concentrations.

RPD(s) for Serial Dilution for Arsenic, Chromium, Magnesium, Potassium, Selenium, Sodium, Calcium are outside control limits for sample MP25574-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

MP25574-SD1 for Calcium: Serial dilution indicates possible matrix interference.

MP25574-PS1 for Calcium: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

Wet Chemistry By Method EPA 120.1

Matrix: AQ **Batch ID:** GN56863

All method blanks for this batch meet method specific criteria.

Sample(s) FA6621-1DUP was used as the QC sample for Specific Conductivity.
The following samples were run outside of holding time for method EPA 120.1: FA6621-2, FA6621-3. Sample analyzed beyond holding time.

Wet Chemistry By Method EPA 300/SW846 9056A

Matrix: AQ **Batch ID:** GP22141

All samples were prepped within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA6576-3MS, FA6576-3MSD were used as the QC samples for Chloride, Nitrogen, Nitrate, Sulfate.
Matrix Spike Recovery(s) for Nitrogen, Nitrate are outside control limits. Spike recovery indicates possible matrix interference. Refer to lab control or spike blank for recovery information.

Matrix Spike Recovery(s) for Chloride and Sulfate are outside control limits. Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

FA6621-2 for Nitrogen, Nitrate: Dilution required due to matrix interference.

FA6621-3 for Nitrogen, Nitrate: Dilution required due to matrix interference.

Matrix: AQ **Batch ID:** GP22142

All method blanks for this batch meet method specific criteria.

Sample(s) FA6621-4MS, FA6621-4MSD were used as the QC samples for Chloride, Nitrogen, Nitrate, Sulfate.

FA6621-1 for Nitrogen, Nitrate: Originally ran in hold. Re-ran at dilution beyond hold time.

FA6621-4 for Nitrogen, Nitrate: Dilution required due to matrix interference.

Wet Chemistry By Method EPA 300/SW846 9056A

Matrix: AQ **Batch ID:** GP22207

All samples were prepped within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA6608-1MS, FA6608-1MSD were used as the QC samples for Fluoride.
Matrix Spike Recovery(s) for Fluoride are outside control limits. Spike recovery indicates possible matrix interference. Refer to lab control or spike blank for recovery information.

FA6621-2 for Fluoride: Dilution required due to matrix interference.

FA6621-3 for Fluoride: Dilution required due to matrix interference.

Wet Chemistry By Method EPA 365.3

Matrix: AQ **Batch ID:** GP22140

All samples were prepped within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA6621-4FMS, FA6621-4FMSD were used as the QC samples for Phosphate, Ortho.
Matrix Spike Recovery(s) for Phosphate, Ortho are outside control limits. Spike recovery indicates possible matrix interference. Refer to lab control or spike blank for recovery information.

Matrix: AQ **Batch ID:** GP22149

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA6570-2MS, FA6570-2MSD were used as the QC samples for Phosphorus, Total.

Matrix: AQ **Batch ID:** GP22168

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA6621-4MS, FA6621-4MSD were used as the QC samples for Phosphorus, Total.

GP22168-S1 for Phosphorus, Total: Spike recovery indicates possible matrix interference. For method performance in a clean matrix, refer to Blank Spike.

Wet Chemistry By Method SM 4500H B/SW 9040C

Matrix: AQ **Batch ID:** GN56862

Sample(s) FA6604-1DUP was used as the QC sample for pH.

FA6621-1 for pH: Field analysis required. Received out of hold time and analyzed by request.

FA6621-2 for pH: Field analysis required. Received out of hold time and analyzed by request.

FA6621-3 for pH: Field analysis required. Received out of hold time and analyzed by request.

FA6621-4 for pH: Field analysis required. Received out of hold time and analyzed by request.

Wet Chemistry By Method SM19 2320B

Matrix: AQ **Batch ID:** GN56879

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA6447-2DUP was used as the QC sample for Alkalinity, Total as CaCO3.

Matrix: AQ **Batch ID:** GN56880

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA6621-2DUP was used as the QC sample for Alkalinity, Total as CaCO3.

Wet Chemistry By Method SM19 2540C

Matrix: AQ **Batch ID:** GN56969

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA6621-4DUP was used as the QC sample for Solids, Total Dissolved.

Accutest Laboratories Southeast (ALSE) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALSE and as stated on the COC. ALSE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the ALSE Quality Manual except as noted above. This report is to be used in its entirety. ALSE is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

_____ Date: August 1, 2013

Kim Benham, Client Services (signature on file)

Summary of Hits

Job Number: FA6621
Account: WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID
Collected: 07/18/13 thru 07/19/13

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA6621-1	**MWA-110**					
Aluminum		2.86	0.20	0.015	mg/l	SW846 6010C
Arsenic		0.0070 J	0.010	0.0025	mg/l	SW846 6010C
Cadmium		0.0250	0.0050	0.00050	mg/l	SW846 6010C
Calcium		340	1.0	0.050	mg/l	SW846 6010C
Magnesium		238	5.0	0.074	mg/l	SW846 6010C
Potassium		23.7	10	0.20	mg/l	SW846 6010C
Selenium		0.0109	0.010	0.0020	mg/l	SW846 6010C
Sodium		146	50	2.5	mg/l	SW846 6010C
Alkalinity, Bicarbonate as CaCO3		53.0	5.0	5.0	mg/l	SM18 4500CO2D
Alkalinity, Total as CaCO3		53.0	5.0	0.60	mg/l	SM19 2320B
Chloride		400	50	20	mg/l	EPA 300/SW846 9056A
Fluoride		9.0	5.0	1.5	mg/l	EPA 300/SW846 9056A
Nitrogen, Nitrate [a]		230	5.0	2.5	mg/l	EPA 300/SW846 9056A
Phosphorus, Total		18.7	5.0	1.4	mg/l	EPA 365.3
Solids, Total Dissolved		5200	500	50	mg/l	SM19 2540C
Specific Conductivity [b]		4110	1.0	1.0	umhos/cm	EPA 120.1
Sulfate		1020	50	15	mg/l	EPA 300/SW846 9056A
pH [c]		5.61			su	SM 4500H B/SW 9040C
FA6621-1F	**MWA-110**					
Phosphate, Ortho		19.3	5.0	0.95	mg/l	EPA 365.3
FA6621-2	**DUP07182013**					
Aluminum		1.84	0.20	0.015	mg/l	SW846 6010C
Calcium		369	1.0	0.050	mg/l	SW846 6010C
Iron		0.215 J	0.30	0.029	mg/l	SW846 6010C
Magnesium		162	5.0	0.074	mg/l	SW846 6010C
Potassium		9.41 J	10	0.20	mg/l	SW846 6010C
Selenium		0.0052 J	0.010	0.0020	mg/l	SW846 6010C
Sodium		77.6	10	0.50	mg/l	SW846 6010C
Alkalinity, Bicarbonate as CaCO3		303	5.0	5.0	mg/l	SM18 4500CO2D
Alkalinity, Total as CaCO3		303	5.0	0.60	mg/l	SM19 2320B
Chloride		35.0	20	8.0	mg/l	EPA 300/SW846 9056A
Nitrogen, Nitrate [d]		3.9	1.0	0.50	mg/l	EPA 300/SW846 9056A
Phosphorus, Total		18.1	5.0	1.4	mg/l	EPA 365.3
Solids, Total Dissolved		1990	200	20	mg/l	SM19 2540C
Specific Conductivity [b]		2530	1.0	1.0	umhos/cm	EPA 120.1
Sulfate		1340	50	15	mg/l	EPA 300/SW846 9056A
pH [c]		7.04			su	SM 4500H B/SW 9040C

Summary of Hits

Job Number: FA6621
Account: WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID
Collected: 07/18/13 thru 07/19/13

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA6621-2F	**DUP07182013**					
Phosphate, Ortho		14.1	5.0	0.95	mg/l	EPA 365.3
FA6621-3	**A-35-155**					
Aluminum		0.0281 J	0.20	0.015	mg/l	SW846 6010C
Arsenic		0.0025 J	0.010	0.0025	mg/l	SW846 6010C
Calcium		378	1.0	0.050	mg/l	SW846 6010C
Iron		0.0430 J	0.30	0.029	mg/l	SW846 6010C
Magnesium		168	5.0	0.074	mg/l	SW846 6010C
Potassium		9.39 J	10	0.20	mg/l	SW846 6010C
Selenium		0.0030 J	0.010	0.0020	mg/l	SW846 6010C
Sodium		79.9	10	0.50	mg/l	SW846 6010C
Alkalinity, Bicarbonate as CaCO3		344	5.0	5.0	mg/l	SM18 4500CO2D
Alkalinity, Total as CaCO3		344	5.0	0.60	mg/l	SM19 2320B
Chloride		35.5	20	8.0	mg/l	EPA 300/SW846 9056A
Nitrogen, Nitrate [d]		1.5	1.0	0.50	mg/l	EPA 300/SW846 9056A
Phosphorus, Total		0.96	0.20	0.056	mg/l	EPA 365.3
Solids, Total Dissolved		2460	200	20	mg/l	SM19 2540C
Specific Conductivity [b]		2680	1.0	1.0	umhos/cm	EPA 120.1
Sulfate		1350	50	15	mg/l	EPA 300/SW846 9056A
pH [c]		7.15			su	SM 4500H B/SW 9040C
FA6621-3F	**A-35-155**					
Phosphate, Ortho		0.69	0.20	0.038	mg/l	EPA 365.3
FA6621-4	**MWB-120**					
Aluminum		0.466	0.20	0.015	mg/l	SW846 6010C
Cadmium		0.0029 J	0.0050	0.00050	mg/l	SW846 6010C
Calcium		134	1.0	0.050	mg/l	SW846 6010C
Magnesium		49.5	5.0	0.074	mg/l	SW846 6010C
Potassium		4.44 J	10	0.20	mg/l	SW846 6010C
Selenium		0.0261	0.010	0.0020	mg/l	SW846 6010C
Sodium		30.3	10	0.50	mg/l	SW846 6010C
Alkalinity, Bicarbonate as CaCO3		212	5.0	5.0	mg/l	SM18 4500CO2D
Alkalinity, Total as CaCO3		212	5.0	0.60	mg/l	SM19 2320B
Chloride		26.6	10	4.0	mg/l	EPA 300/SW846 9056A
Fluoride		20.9	1.0	0.30	mg/l	EPA 300/SW846 9056A
Nitrogen, Nitrate [d]		3.2	0.50	0.25	mg/l	EPA 300/SW846 9056A
Phosphorus, Total		1.1	0.50	0.14	mg/l	EPA 365.3
Solids, Total Dissolved		1010	100	10	mg/l	SM19 2540C
Specific Conductivity		1120	1.0	1.0	umhos/cm	EPA 120.1

Summary of Hits

Job Number: FA6621
Account: WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID
Collected: 07/18/13 thru 07/19/13

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Sulfate		268	10	3.0	mg/l	EPA 300/SW846 9056A
pH [c]		7.01			su	SM 4500H B/SW 9040C
FA6621-4F	**MWB-120**					
Phosphate, Ortho		24.9	5.0	0.95	mg/l	EPA 365.3

(a) Originally ran in hold. Re-ran at dilution beyond hold time.
(b) Sample analyzed beyond hold time.
(c) Field analysis required. Received out of hold time and analyzed by request.
(d) Dilution required due to matrix interference.

Southeast ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: MWA-110
Lab Sample ID: FA6621-1
Matrix: AQ - Ground Water
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

Date Sampled: 07/19/13
Date Received: 07/20/13
Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	2.86	0.20	0.015	mg/l	1	07/29/13	07/29/13	LM	SW846 6010C [1]	SW846 3010A [3]
Antimony	0.0013 U	0.0060	0.0013	mg/l	1	07/29/13	07/29/13	LM	SW846 6010C [1]	SW846 3010A [3]
Arsenic	0.0070 J	0.010	0.0025	mg/l	1	07/29/13	07/29/13	LM	SW846 6010C [1]	SW846 3010A [3]
Cadmium	0.0250	0.0050	0.00050	mg/l	1	07/29/13	07/29/13	LM	SW846 6010C [1]	SW846 3010A [3]
Calcium	340	1.0	0.050	mg/l	1	07/29/13	07/29/13	LM	SW846 6010C [1]	SW846 3010A [3]
Chromium	0.0020 U	0.010	0.0020	mg/l	1	07/29/13	07/29/13	LM	SW846 6010C [1]	SW846 3010A [3]
Iron	0.029 U	0.30	0.029	mg/l	1	07/29/13	07/29/13	LM	SW846 6010C [1]	SW846 3010A [3]
Magnesium	238	5.0	0.074	mg/l	1	07/29/13	07/29/13	LM	SW846 6010C [1]	SW846 3010A [3]
Potassium	23.7	10	0.20	mg/l	1	07/29/13	07/29/13	LM	SW846 6010C [1]	SW846 3010A [3]
Selenium	0.0109	0.010	0.0020	mg/l	1	07/29/13	07/29/13	LM	SW846 6010C [1]	SW846 3010A [3]
Sodium	146	50	2.5	mg/l	5	07/29/13	07/30/13	LM	SW846 6010C [2]	SW846 3010A [3]

(1) Instrument QC Batch: MA10932
(2) Instrument QC Batch: MA10935
(3) Prep QC Batch: MP25574

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: MWA-110
Lab Sample ID: FA6621-1
Matrix: AQ - Ground Water
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

Date Sampled: 07/19/13
Date Received: 07/20/13
Percent Solids: n/a

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Alkalinity, Bicarbonate as CaC	53.0	5.0	5.0	mg/l	1	07/22/13 10:05	HH	SM18 4500CO2D
Alkalinity, Carbonate	5.0 U	5.0	5.0	mg/l	1	07/22/13 10:05	HH	SM18 4500CO2D
Alkalinity, Total as CaCO3	53.0	5.0	0.60	mg/l	1	07/22/13 10:05	HH	SM19 2320B
Chloride	400	50	20	mg/l	25	07/20/13 18:57	AC	EPA 300/SW846 9056A
Fluoride	9.0	5.0	1.5	mg/l	25	07/31/13 13:55	AA	EPA 300/SW846 9056A
Nitrogen, Nitrate [a]	230	5.0	2.5	mg/l	50	07/22/13 21:35	AC	EPA 300/SW846 9056A
Phosphorus, Total	18.7	5.0	1.4	mg/l	50	07/23/13 14:02	LE	EPA 365.3
Solids, Total Dissolved	5200	500	50	mg/l	5	07/25/13 14:50	KC	SM19 2540C
Specific Conductivity [b]	4110	1.0	1.0	umhos/cm	1	07/20/13 11:00	HH	EPA 120.1
Sulfate	1020	50	15	mg/l	25	07/20/13 18:57	AC	EPA 300/SW846 9056A
pH [c]	5.61			su	1	07/20/13 11:15	HH	SM 4500H B/SW 9040C

(a) Originally ran in hold. Re-ran at dilution beyond hold time.
(b) Sample analyzed beyond hold time.
(c) Field analysis required. Received out of hold time and analyzed by request.

RL = Reporting Limit
MDL = Method Detection Limit
U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	MWA-110		
Lab Sample ID:	FA6621-1F	**Date Sampled:**	07/19/13
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/20/13
		Percent Solids:	n/a
Project:	Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Phosphate, Ortho	19.3	5.0	0.95	mg/l	50	07/20/13 12:10	LE	EPA 365.3

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: DUP07182013
Lab Sample ID: FA6621-2
Matrix: AQ - Ground Water
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

Date Sampled: 07/18/13
Date Received: 07/20/13
Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	1.84	0.20	0.015	mg/l	1	07/29/13	07/29/13	LM	SW846 6010C [1]	SW846 3010A [2]
Antimony	0.0013 U	0.0060	0.0013	mg/l	1	07/29/13	07/29/13	LM	SW846 6010C [1]	SW846 3010A [2]
Arsenic	0.0025 U	0.010	0.0025	mg/l	1	07/29/13	07/29/13	LM	SW846 6010C [1]	SW846 3010A [2]
Cadmium	0.00050 U	0.0050	0.00050	mg/l	1	07/29/13	07/29/13	LM	SW846 6010C [1]	SW846 3010A [2]
Calcium	369	1.0	0.050	mg/l	1	07/29/13	07/29/13	LM	SW846 6010C [1]	SW846 3010A [2]
Chromium	0.0020 U	0.010	0.0020	mg/l	1	07/29/13	07/29/13	LM	SW846 6010C [1]	SW846 3010A [2]
Iron	0.215 J	0.30	0.029	mg/l	1	07/29/13	07/29/13	LM	SW846 6010C [1]	SW846 3010A [2]
Magnesium	162	5.0	0.074	mg/l	1	07/29/13	07/29/13	LM	SW846 6010C [1]	SW846 3010A [2]
Potassium	9.41 J	10	0.20	mg/l	1	07/29/13	07/29/13	LM	SW846 6010C [1]	SW846 3010A [2]
Selenium	0.0052 J	0.010	0.0020	mg/l	1	07/29/13	07/29/13	LM	SW846 6010C [1]	SW846 3010A [2]
Sodium	77.6	10	0.50	mg/l	1	07/29/13	07/29/13	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10932
(2) Prep QC Batch: MP25574

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: DUP07182013
Lab Sample ID: FA6621-2
Matrix: AQ - Ground Water
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

Date Sampled: 07/18/13
Date Received: 07/20/13
Percent Solids: n/a

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Alkalinity, Bicarbonate as CaC	303	5.0	5.0	mg/l	1	07/22/13 10:55	HH	SM18 4500CO2D
Alkalinity, Carbonate	5.0 U	5.0	5.0	mg/l	1	07/22/13 10:55	HH	SM18 4500CO2D
Alkalinity, Total as CaCO3	303	5.0	0.60	mg/l	1	07/22/13 10:55	HH	SM19 2320B
Chloride	35.0	20	8.0	mg/l	10	07/20/13 13:07	AC	EPA 300/SW846 9056A
Fluoride [a]	0.60 U	2.0	0.60	mg/l	10	07/31/13 14:12	AA	EPA 300/SW846 9056A
Nitrogen, Nitrate [a]	3.9	1.0	0.50	mg/l	10	07/20/13 13:07	AC	EPA 300/SW846 9056A
Phosphorus, Total	18.1	5.0	1.4	mg/l	50	07/25/13 11:00	LE	EPA 365.3
Solids, Total Dissolved	1990	200	20	mg/l	2	07/25/13 14:50	KC	SM19 2540C
Specific Conductivity [b]	2530	1.0	1.0	umhos/cm	1	07/20/13 11:00	HH	EPA 120.1
Sulfate	1340	50	15	mg/l	25	07/23/13 15:38	AC	EPA 300/SW846 9056A
pH [c]	7.04			su	1	07/20/13 11:15	HH	SM 4500H B/SW 9040C

(a) Dilution required due to matrix interference.
(b) Sample analyzed beyond hold time.
(c) Field analysis required. Received out of hold time and analyzed by request.

RL = Reporting Limit
MDL = Method Detection Limit
U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	DUP07182013		
Lab Sample ID:	FA6621-2F	**Date Sampled:**	07/18/13
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/20/13
		Percent Solids:	n/a
Project:	Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Phosphate, Ortho	14.1	5.0	0.95	mg/l	50	07/20/13 12:10	LE	EPA 365.3

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: A-35-155
Lab Sample ID: FA6621-3
Matrix: AQ - Ground Water
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

Date Sampled: 07/18/13
Date Received: 07/20/13
Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	0.0281 J	0.20	0.015	mg/l	1	07/29/13	07/29/13	LM	SW846 6010C [1]	SW846 3010A [2]
Antimony	0.0013 U	0.0060	0.0013	mg/l	1	07/29/13	07/29/13	LM	SW846 6010C [1]	SW846 3010A [2]
Arsenic	0.0025 J	0.010	0.0025	mg/l	1	07/29/13	07/29/13	LM	SW846 6010C [1]	SW846 3010A [2]
Cadmium	0.00050 U	0.0050	0.00050	mg/l	1	07/29/13	07/29/13	LM	SW846 6010C [1]	SW846 3010A [2]
Calcium	378	1.0	0.050	mg/l	1	07/29/13	07/29/13	LM	SW846 6010C [1]	SW846 3010A [2]
Chromium	0.0020 U	0.010	0.0020	mg/l	1	07/29/13	07/29/13	LM	SW846 6010C [1]	SW846 3010A [2]
Iron	0.0430 J	0.30	0.029	mg/l	1	07/29/13	07/29/13	LM	SW846 6010C [1]	SW846 3010A [2]
Magnesium	168	5.0	0.074	mg/l	1	07/29/13	07/29/13	LM	SW846 6010C [1]	SW846 3010A [2]
Potassium	9.39 J	10	0.20	mg/l	1	07/29/13	07/29/13	LM	SW846 6010C [1]	SW846 3010A [2]
Selenium	0.0030 J	0.010	0.0020	mg/l	1	07/29/13	07/29/13	LM	SW846 6010C [1]	SW846 3010A [2]
Sodium	79.9	10	0.50	mg/l	1	07/29/13	07/29/13	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10932
(2) Prep QC Batch: MP25574

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: A-35-155
Lab Sample ID: FA6621-3
Matrix: AQ - Ground Water
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

Date Sampled: 07/18/13
Date Received: 07/20/13
Percent Solids: n/a

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Alkalinity, Bicarbonate as CaC	344	5.0	5.0	mg/l	1	07/22/13 10:55	HH	SM18 4500CO2D
Alkalinity, Carbonate	5.0 U	5.0	5.0	mg/l	1	07/22/13 10:55	HH	SM18 4500CO2D
Alkalinity, Total as CaCO3	344	5.0	0.60	mg/l	1	07/22/13 10:55	HH	SM19 2320B
Chloride	35.5	20	8.0	mg/l	10	07/20/13 12:51	AC	EPA 300/SW846 9056A
Fluoride [a]	0.60 U	2.0	0.60	mg/l	10	07/31/13 14:29	AA	EPA 300/SW846 9056A
Nitrogen, Nitrate [a]	1.5	1.0	0.50	mg/l	10	07/20/13 12:51	AC	EPA 300/SW846 9056A
Phosphorus, Total	0.96	0.20	0.056	mg/l	2	07/23/13 14:02	LE	EPA 365.3
Solids, Total Dissolved	2460	200	20	mg/l	2	07/25/13 14:50	KC	SM19 2540C
Specific Conductivity [b]	2680	1.0	1.0	umhos/cm	1	07/20/13 11:00	HH	EPA 120.1
Sulfate	1350	50	15	mg/l	25	07/23/13 15:22	AC	EPA 300/SW846 9056A
pH [c]	7.15			su	1	07/20/13 11:15	HH	SM 4500H B/SW 9040C

(a) Dilution required due to matrix interference.
(b) Sample analyzed beyond hold time.
(c) Field analysis required. Received out of hold time and analyzed by request.

RL = Reporting Limit
MDL = Method Detection Limit
U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	A-35-155		
Lab Sample ID:	FA6621-3F	**Date Sampled:**	07/18/13
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/20/13
		Percent Solids:	n/a
Project:	Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Phosphate, Ortho	0.69	0.20	0.038	mg/l	2	07/20/13 12:10	LE	EPA 365.3

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: MWB-120
Lab Sample ID: FA6621-4
Matrix: AQ - Ground Water
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

Date Sampled: 07/19/13
Date Received: 07/20/13
Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	0.466	0.20	0.015	mg/l	1	07/29/13	07/29/13	LM	SW846 6010C [1]	SW846 3010A [2]
Antimony	0.0013 U	0.0060	0.0013	mg/l	1	07/29/13	07/29/13	LM	SW846 6010C [1]	SW846 3010A [2]
Arsenic	0.0025 U	0.010	0.0025	mg/l	1	07/29/13	07/29/13	LM	SW846 6010C [1]	SW846 3010A [2]
Cadmium	0.0029 J	0.0050	0.00050	mg/l	1	07/29/13	07/29/13	LM	SW846 6010C [1]	SW846 3010A [2]
Calcium	134	1.0	0.050	mg/l	1	07/29/13	07/29/13	LM	SW846 6010C [1]	SW846 3010A [2]
Chromium	0.0020 U	0.010	0.0020	mg/l	1	07/29/13	07/29/13	LM	SW846 6010C [1]	SW846 3010A [2]
Iron	0.029 U	0.30	0.029	mg/l	1	07/29/13	07/29/13	LM	SW846 6010C [1]	SW846 3010A [2]
Magnesium	49.5	5.0	0.074	mg/l	1	07/29/13	07/29/13	LM	SW846 6010C [1]	SW846 3010A [2]
Potassium	4.44 J	10	0.20	mg/l	1	07/29/13	07/29/13	LM	SW846 6010C [1]	SW846 3010A [2]
Selenium	0.0261	0.010	0.0020	mg/l	1	07/29/13	07/29/13	LM	SW846 6010C [1]	SW846 3010A [2]
Sodium	30.3	10	0.50	mg/l	1	07/29/13	07/29/13	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10932
(2) Prep QC Batch: MP25574

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: MWB-120
Lab Sample ID: FA6621-4
Matrix: AQ - Ground Water
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

Date Sampled: 07/19/13
Date Received: 07/20/13
Percent Solids: n/a

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Alkalinity, Bicarbonate as CaC	212	5.0	5.0	mg/l	1	07/22/13 10:55	HH	SM18 4500CO2D
Alkalinity, Carbonate	5.0 U	5.0	5.0	mg/l	1	07/22/13 10:55	HH	SM18 4500CO2D
Alkalinity, Total as CaCO3	212	5.0	0.60	mg/l	1	07/22/13 10:55	HH	SM19 2320B
Chloride	26.6	10	4.0	mg/l	5	07/20/13 19:13	AC	EPA 300/SW846 9056A
Fluoride	20.9	1.0	0.30	mg/l	5	07/31/13 14:45	AA	EPA 300/SW846 9056A
Nitrogen, Nitrate [a]	3.2	0.50	0.25	mg/l	5	07/20/13 19:13	AC	EPA 300/SW846 9056A
Phosphorus, Total	1.1	0.50	0.14	mg/l	5	07/25/13 11:00	LE	EPA 365.3
Solids, Total Dissolved	1010	100	10	mg/l	1	07/25/13 14:50	KC	SM19 2540C
Specific Conductivity	1120	1.0	1.0	umhos/cm	1	07/20/13 11:00	HH	EPA 120.1
Sulfate	268	10	3.0	mg/l	5	07/20/13 19:13	AC	EPA 300/SW846 9056A
pH [b]	7.01			su	1	07/20/13 11:15	HH	SM 4500H B/SW 9040C

(a) Dilution required due to matrix interference.
(b) Field analysis required. Received out of hold time and analyzed by request.

RL = Reporting Limit
MDL = Method Detection Limit
U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	MWB-120		
Lab Sample ID:	FA6621-4F	**Date Sampled:**	07/19/13
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/20/13
		Percent Solids:	n/a
Project:	Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Phosphate, Ortho	24.9	5.0	0.95	mg/l	50	07/20/13 12:10	LE	EPA 365.3

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

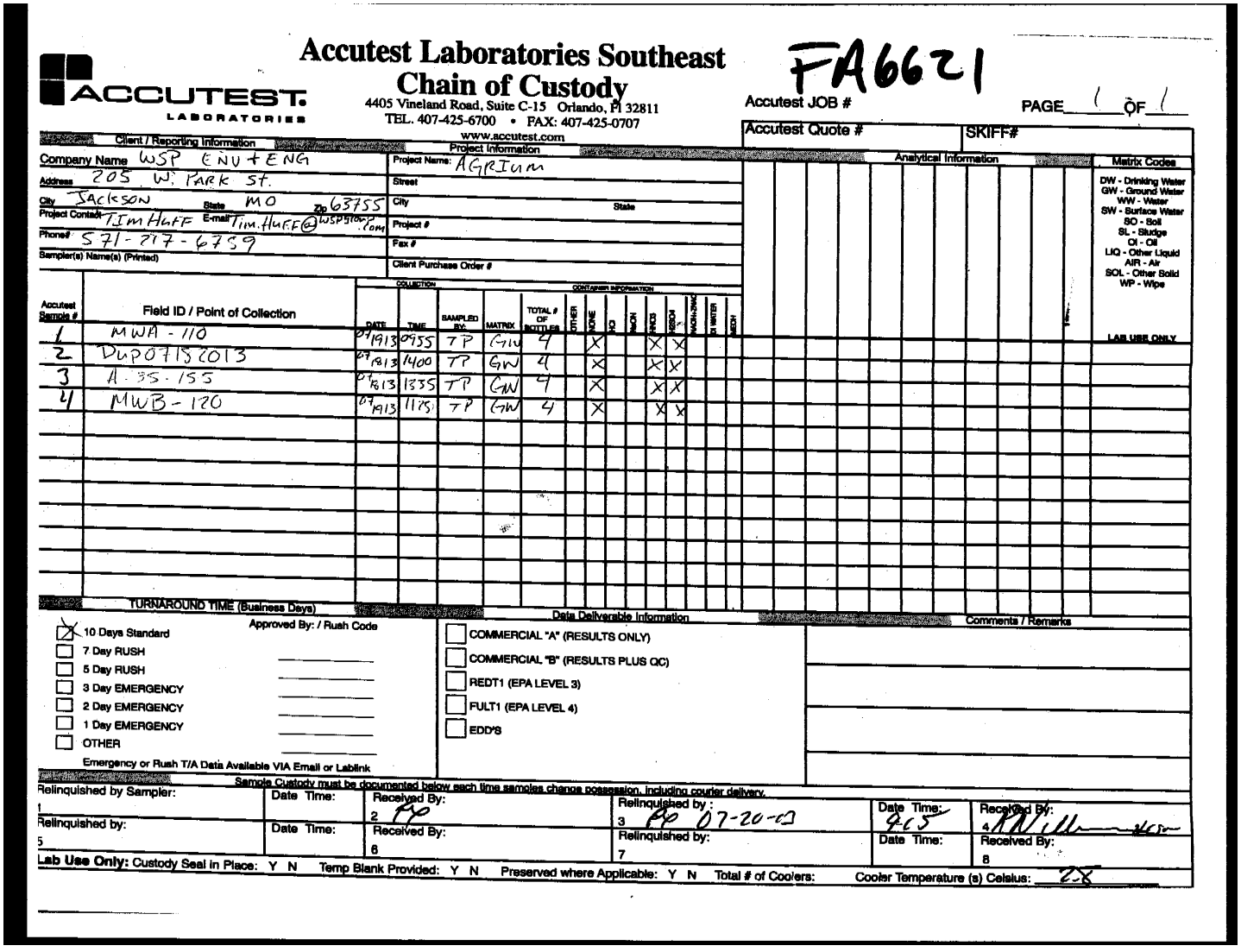
Southeast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody



Accutest Laboratories Southeast
Chain of Custody

ACCUTEST LABORATORIES

4405 Vineland Road, Suite C-15 Orlando, Fl 32811
TEL. 407-425-6700 • FAX: 407-425-0707
www.accutest.com

FA6621

Accutest JOB #

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Accutest Quote #

SKIFF#

Client / Reporting Information

Company Name: WSP ENV + ENG
Address: 205 W. PARK ST.
City: JACKSON State: MO Zip: 63755
Project Contact: TIM HUFF E-mail: Tim.Huff@wspgroup.com
Phone#: 571-217-6759
Sampler(s) Name(s) (Printed):

Project Information

Project Name: AGRIUM
Street:
City: State:
Project #:
Fax #:
Client Purchase Order #:

Analytical Information

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL - Sludge
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe

Accutest Sample #	Field ID / Point of Collection	Collection: Date	Collection: Time	Sampled By:	Matrix	Total # of Bottles	Other	None	HCl	NaOH	HNO3	H2SO4	NaOH+ZnAc	DI Water	MeOH	Lab Use Only
1	MWA-110	07/19/13	0955	TP	GW	4		X			X	X				
2	DUP07152013	07/18/13	1400	TP	GW	4		X			X	X				
3	A-35-155	07/18/13	1335	TP	GW	4		X			X	X				
4	MWB-120	07/19/13	1125	TP	GW	4		X			X	X				

TURNAROUND TIME (Business Days)

Approved By: / Rush Code

- [x] 10 Days Standard
- [ ] 7 Day RUSH
- [ ] 5 Day RUSH
- [ ] 3 Day EMERGENCY
- [ ] 2 Day EMERGENCY
- [ ] 1 Day EMERGENCY
- [ ] OTHER

Emergency or Rush T/A Data Available VIA Email or Lablink

Data Deliverable Information

- [ ] COMMERCIAL "A" (RESULTS ONLY)
- [ ] COMMERCIAL "B" (RESULTS PLUS QC)
- [ ] REDT1 (EPA LEVEL 3)
- [ ] FULT1 (EPA LEVEL 4)
- [ ] EDD'S

Comments / Remarks

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished by:	Date Time:	Received By:
1		2 FP	3 FP 07-20-13	9:05	4 [signature]
Relinquished by: 5	Date Time:	Received By: 6	Relinquished by: 7	Date Time:	Received By: 8

Lab Use Only: Custody Seal in Place: Y N Temp Blank Provided: Y N Preserved where Applicable: Y N Total # of Coolers: Cooler Temperature (s) Celsius: 2.8

5.1

5

FA6621: Chain of Custody
Page 1 of 2

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: FA6621 CLIENT: WSP PROJECT: Agrium

DATE/TIME RECEIVED: 07-20-13 915 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 1

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 8017 3246 6898

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET
- [ ] WET ICE PRESENT

TRIP BLANK INFORMATION

- [ ] TRIP BLANK PROVIDED
- [V] TRIP BLANK NOT PROVIDED
- [V] TRIP BLANK NOT ON COC
- [ ] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [ ] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM_____ 5-GRAM_____

NUMBER OF 5035 FIELD KITS ? _____

NUMBER OF LAB FILTERED METALS ? _____

TEMPERATURE INFORMATION

- [ ] IR THERM ID 3 CORR. FACTOR -0.4
- [ ] OBSERVED TEMPS: 2-4
- [ ] CORRECTED TEMPS: 2-8

SAMPLE INFORMATION

- [ ] SAMPLE LABELS PRESENT ON ALL BOTTLES
- [ ] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] 5035 FIELD KIT FROZEN WITHIN 48 HOUR'S
- [ ] RESIDUAL CHLORINE PRESENT

{APPICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

SUMMARY OF COMMENTS: _____

TECHNICIAN SIGNATURE/DATE R Will 07-20-13 REVIEWER SIGNATURE/DATE 07/20/2013

NF 12/10

receipt confirmation 122910.xls

5.1 5

FA6621: Chain of Custody

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Southeast ACCUTEST LABORATORIES

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Instrument Runlogs
- Initial and Continuing Calibration Blanks
- Initial and Continuing Calibration Checks
- High and Low Check Standards
- Interfering Element Check Standards
- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA6621
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA072913M1.ICP Date Analyzed: 07/29/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10932
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
07:59	MA10932-STD1	1		STDA
08:03	MA10932-STD2	1		STDB
08:07	MA10932-STD3	1		STDC
08:10	MA10932-STD4	1		STDD
08:15	MA10932-HSTD1	1		
08:23	MA10932-ICV1	1		
08:28	MA10932-ICB1	1		
08:32	MA10932-CRIA1	1		
09:18	MA10932-ICSA1	1		
09:25	MA10932-ICSAB1	1		
09:29	MA10932-CCV1	1		
09:34	MA10932-CCB1	1		
09:39	MP25566-MB1	1		
09:43	MP25566-B1	1		
09:48	FA6731-2	1		(sample used for QC only; not part of login FA6621)
09:52	MP25566-D1	1		
09:56	MP25566-SD1	5		
10:01	MP25566-PS1	1		
10:05	MP25566-S1	1		
10:09	MP25566-S2	1		
10:14	ZZZZZZ	1		
10:18	ZZZZZZ	1		
10:23	MA10932-CCV2	1		
10:27	MA10932-CCB2	1		
10:31	ZZZZZZ	1		
10:36	ZZZZZZ	1		
10:41	ZZZZZZ	1		
10:45	ZZZZZZ	1		
10:55	ZZZZZZ	1		
10:59	ZZZZZZ	1		
11:04	ZZZZZZ	1		
11:08	ZZZZZZ	1		
11:13	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA6621
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA072913M1.ICP Date Analyzed: 07/29/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10932
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
11:18	MA10932-CCV3	1		
11:22	MA10932-CCB3	1		
11:27	ZZZZZZ	1		
11:31	ZZZZZZ	1		
11:36	ZZZZZZ	1		
11:41	ZZZZZZ	1		
11:45	ZZZZZZ	1		
11:50	ZZZZZZ	1		
11:54	ZZZZZZ	1		
11:59	MP25566-MB2	1		
12:03	MP25572-MB1	1		
12:08	MP25572-B1	1		
12:12	MA10932-CCV4	1		
12:16	MA10932-CCB4	1		
12:21	MP25572-B2	1		
12:25	MP25572-B3	1		
12:30	FA6353-1L	1		(sample used for QC only; not part of login FA6621)
12:35	MP25572-D1	1		
12:44	MP25574-MB1	1		
12:48	MP25574-B1	1		
12:53	FA6794-2	1		(sample used for QC only; not part of login FA6621)
12:57	MP25574-D1	1		
13:02	MP25574-SD1	5		
13:06	MP25574-PS1	1		
13:10	MA10932-CCV5	1		
13:15	MA10932-CCB5	1		
13:19	MP25574-S1	1		
13:23	MP25574-S2	1		
13:28	ZZZZZZ	1		
13:32	ZZZZZZ	1		
13:37	ZZZZZZ	1		
13:41	ZZZZZZ	1		
13:46	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA6621
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA072913M1.ICP Date Analyzed: 07/29/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10932
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
13:50	ZZZZZZ	1		
13:55	ZZZZZZ	1		
13:59	ZZZZZZ	1		
14:04	MA10932-CCV6	1		
14:08	MA10932-CCB6	1		
14:13	ZZZZZZ	1		
14:17	ZZZZZZ	1		
14:31	FA6621-1	1		
14:36	FA6621-2	1		
14:40	FA6621-3	1		
14:45	FA6621-4	1		
14:49	ZZZZZZ	1		
14:54	ZZZZZZ	1		
14:58	MA10932-CCV7	1		
15:03	MA10932-CCB7	1		
15:07	MP25574-MB2A	1		
---------->	Last reportable sample/prep for job FA6621			
15:12	MP25571-MB1	1		
15:16	MP25571-B1	1		
15:21	FA6743-1	1		(sample used for QC only; not part of login FA6621)
15:25	MP25571-D1	1		
15:30	MP25571-SD1	5		
15:34	MP25571-S1	1		
15:39	MP25571-S2	1		
15:43	ZZZZZZ	1		
15:48	ZZZZZZ	1		
15:52	MA10932-CCV8	1		
15:57	MA10932-CCB8	1		
16:01	MP25576-MB1	1		
16:06	MP25576-B1	1		
16:10	JB42532-2R	1		(sample used for QC only; not part of login FA6621)
16:14	MP25576-D1	1		
16:19	MP25576-SD1	5		
16:24	MP25576-S1	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA6621
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA072913M1.ICP Date Analyzed: 07/29/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10932
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
16:28	MP25576-S2	1		
16:32	MP25576-MB2	1		
16:37	MP25576-B2	1		
16:41	MA10932-CRIA2	1		
16:45	MA10932-CCV9	1		
16:50	MA10932-CCB9	1		
16:54	MA10932-ICSA2	1		
16:59	MA10932-ICSAB2	1		
17:03	MA10932-CCV10	1		
17:08	MA10932-CCB10	1		

----------> Last reportable CCB for job FA6621
Refer to raw data for calibration curve and standards.

INTERNAL STANDARD SUMMARY

Login Number: FA6621
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA072913M1.ICP Date Analyzed: 07/29/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10932
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
07:59	MA10932-STD1	2119	20871	4203	1106
08:03	MA10932-STD2	2084	20447	4189	1039
08:07	MA10932-STD3	1998	19644	4135	940
08:10	MA10932-STD4	1925	19122	4113	869
08:15	MA10932-HSTD1	1928	19155	4111	872
08:23	MA10932-ICV1	2008	19722	4177	950
08:28	MA10932-ICB1	2148 R	21143 R	4292 R	1131 R
08:32	MA10932-CRIA1	2112	20736	4271	1087
09:18	MA10932-ICSA1	1829	17824	3982	810
09:25	MA10932-ICSAB1	1831	17871	3989	805
09:29	MA10932-CCV1	2007	19843	4164	941
09:34	MA10932-CCB1	2131	21126	4234	1118
09:39	MP25566-MB1	2140	21447	4315	1124
09:43	MP25566-B1	2074	20347	4248	1006
09:48	FA6731-2	2620	24589	5889	708
09:52	MP25566-D1	2624	24638	5882	706
09:56	MP25566-SD1	2149	20319	4559	860
10:01	MP25566-PS1	2614	24553	5831 !	710
10:05	MP25566-S1	2602	24498	5843	703
10:09	MP25566-S2	2621	24714	5862	702
10:14	ZZZZZZ	2139	21379	4336	1118
10:18	ZZZZZZ	2118	21214	4310	1098
10:23	MA10932-CCV2	2015	20101	4180	945
10:27	MA10932-CCB2	2142	21384	4226	1120
10:31	ZZZZZZ	2137	21486	4271	1114
10:36	ZZZZZZ	2124	21294	4302	1104
10:41	ZZZZZZ	1953	19398	4125	948
10:45	ZZZZZZ	2085	20587	4281	988
10:55	ZZZZZZ	1912	19069	4089	912
10:59	ZZZZZZ	1800	17726	3968	806
11:04	ZZZZZZ	1827	18003	3987	832
11:08	ZZZZZZ	1792	17843	3942	822
11:13	ZZZZZZ	1770	17686	3903	826

INTERNAL STANDARD SUMMARY

Login Number: FA6621
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA072913M1.ICP Date Analyzed: 07/29/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10932
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
11:18	MA10932-CCV3	2019	19940	4166	946
11:22	MA10932-CCB3	2146	21222	4252	1124
11:27	ZZZZZZ	1898	18799	4127	794
11:31	ZZZZZZ	2133	21410	4298	1123
11:36	ZZZZZZ	2080	20599	4232	1050
11:41	ZZZZZZ	2078	20663	4252	1048
11:45	ZZZZZZ	2076	20664	4236	1048
11:50	ZZZZZZ	2147	21459	4293	1130
11:54	ZZZZZZ	2081	20658	4238	1051
11:59	MP25566-MB2	2146	21513	4301	1132
12:03	MP25572-MB1	1934	19664	3953	1071
12:08	MP25572-B1	1965	20144	4025	1069
12:12	MA10932-CCV4	2033	20301	4244	959
12:16	MA10932-CCB4	2144	21434	4224	1127
12:21	MP25572-B2	1978	20265	4087	1094
12:25	MP25572-B3	2000	20537	4082	1109
12:30	FA6353-1L	1996	20391	4073	1097
12:35	MP25572-D1	2001	20491	4073	1102
12:44	MP25574-MB1	2134	21589	4255	1129
12:48	MP25574-B1	2041	20404	4213	1001
12:53	FA6794-2	2100	21040	4239	1085
12:57	MP25574-D1	2082	21002	4232	1073
13:02	MP25574-SD1	2112	21095	4205	1103
13:06	MP25574-PS1	2074	20727	4224	1036
13:10	MA10932-CCV5	1990	19831	4122	936
13:15	MA10932-CCB5	2126	21195	4206	1114
13:19	MP25574-S1	2063	20457	4258	983
13:23	MP25574-S2	2058	20450	4243	982
13:28	ZZZZZZ	1957	19759	4159	974
13:32	ZZZZZZ	2104	21198	4272	1094
13:37	ZZZZZZ	2084	20870	4259	1080
13:41	ZZZZZZ	2061	20571	4235	1048
13:46	ZZZZZZ	2110	21048	4230	1121

INTERNAL STANDARD SUMMARY

Login Number: FA6621
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA072913M1.ICP Date Analyzed: 07/29/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10932
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
13:50	ZZZZZZ	2103	21012	4222	1119
13:55	ZZZZZZ	2107	21081	4216	1119
13:59	ZZZZZZ	2121	21264	4277	1127
14:04	MA10932-CCV6	1991	19669	4112	939
14:08	MA10932-CCB6	2123	20962	4208	1116
14:13	ZZZZZZ	2115	21255	4264	1126
14:17	ZZZZZZ	2118	21232	4259	1126
14:31	FA6621-1	1803	17994	3960	840
14:36	FA6621-2	1832	18340	3980	874
14:40	FA6621-3	1815	18183	3971	871
14:45	FA6621-4	1925	19240	4095	958
14:49	ZZZZZZ	2045	20432	4243	1029
14:54	ZZZZZZ	2027	20338	4207	1031
14:58	MA10932-CCV7	1992	19585	4113	940
15:03	MA10932-CCB7	2114	20895	4201	1114
15:07	MP25574-MB2A	2124	21117	4274	1128
15:12	MP25571-MB1	2129	20834	4207	1120
15:16	MP25571-B1	2045	20010	4206	1003
15:21	FA6743-1	1993	19202	4151	952
15:25	MP25571-D1	1995	19270	4180	955
15:30	MP25571-SD1	2101	20231	4197	1056
15:34	MP25571-S1	1975	18961	4127	907
15:39	MP25571-S2	1988	19015	4139	917
15:43	ZZZZZZ	2050	19634	4187	1002
15:48	ZZZZZZ	2032	19590	4200	988
15:52	MA10932-CCV8	2018	19624	4182	956
15:57	MA10932-CCB8	2141	20850	4228	1127
16:01	MP25576-MB1	2151	21153	4285	1143
16:06	MP25576-B1	2045	19900	4224	1009
16:10	JB42532-2R	2093	20483	4286	1073
16:14	MP25576-D1	2090	20326	4245	1072
16:19	MP25576-SD1	2125	20698	4253	1117
16:24	MP25576-S1	2045	19759	4263	993

INTERNAL STANDARD SUMMARY

Login Number: FA6621
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA072913M1.ICP Date Analyzed: 07/29/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10932
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
16:28	MP25576-S2	2032	19750	4284	990
16:32	MP25576-MB2	2103	20774	4292	1129
16:37	MP25576-B2	2045	19932	4261	1008
16:41	MA10932-CRIA2	2098	20264	4233	1086
16:45	MA10932-CCV9	2003	19434	4177	952
16:50	MA10932-CCB9	2120	20678	4279	1129
16:54	MA10932-ICSA2	1821	17572	3964	821
16:59	MA10932-ICSAB2	1828	17581	3983	813
17:03	MA10932-CCV10	2015	19529	4180	952
17:08	MA10932-CCB10	2127	20704	4242	1125

R = Reference for ISTD limits. ! = Outside limits.

LEGEND:

Istd#	Parameter	Limits
Istd#1	Yttrium (2243)	60-125 %
Istd#2	Yttrium (3600)	60-125 %
Istd#3	Yttrium (3710)	60-125 %
Istd#4	Indium	60-125 %

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: FA6621
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA072913M1.ICP Date Analyzed: 07/29/13 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA10932 Units: ug/l

Time:			08:28		09:34		10:27		11:22	
Sample ID:			ICB1		CCB1		CCB2		CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	15	6.0	<200	6.4	<200	4.3	<200	-3.5	<200
Antimony	6.0	1.3	-0.10	<6.0	0.20	<6.0	-0.40	<6.0	0.0	<6.0
Arsenic	10	1.6	0.90	<10	2.4	<10	2.6	<10	1.9	<10
Barium	200	1	anr							
Beryllium	4.0	.5	anr							
Cadmium	5.0	.5	0.0	<5.0	0.10	<5.0	0.10	<5.0	0.10	<5.0
Calcium	1000	50	1.9	<1000	8.6	<1000	7.9	<1000	19.0	<1000
Chromium	10	1.8	0.20	<10	-0.20	<10	0.0	<10	-0.10	<10
Cobalt	50	.5	anr							
Copper	25	1	anr							
Iron	300	29	5.3	<300	15.2	<300	14.0	<300	14.2	<300
Lead	5.0	1.1	anr							
Magnesium	5000	74	-50	<5000	-1.5	<5000	-5.9	<5000	5.1	<5000
Manganese	15	.7	anr							
Molybdenum	50	.6								
Nickel	40	.5	anr							
Potassium	10000	200	7.9	<10000	8.4	<10000	96.0	<10000	80.3	<10000
Selenium	10	2	0.30	<10	1.2	<10	0.80	<10	-0.60	<10
Silver	10	.5	anr							
Sodium	10000	500	8.3	<10000	10.3	<10000	352	<10000	256	<10000
Strontium	10	.5								
Thallium	10	1.3	anr							
Tin	50	.7								
Titanium	10	.9								
Vanadium	50	.5	anr							
Zinc	20	3	anr							

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: FA6621
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA072913M1.ICP Date Analyzed: 07/29/13 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA10932 Units: ug/l

Time:			12:16		13:15		14:08		15:03	
Sample ID:			CCB4		CCB5		CCB6		CCB7	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	15	-4.7	<200	-1.3	<200	-1.6	<200	0.30	<200
Antimony	6.0	1.3	-0.20	<6.0	-1.2	<6.0	-1.3	<6.0	-0.30	<6.0
Arsenic	10	1.6	1.9	<10	1.3	<10	2.4	<10	2.0	<10
Barium	200	1	anr							
Beryllium	4.0	.5	anr							
Cadmium	5.0	.5	0.10	<5.0	0.0	<5.0	0.10	<5.0	0.0	<5.0
Calcium	1000	50	3.3	<1000	3.3	<1000	6.1	<1000	7.3	<1000
Chromium	10	1.8	0.0	<10	0.0	<10	0.0	<10	0.20	<10
Cobalt	50	.5	anr							
Copper	25	1	anr							
Iron	300	29	5.2	<300	12.1	<300	11.5	<300	11.4	<300
Lead	5.0	1.1	anr							
Magnesium	5000	74	-19	<5000	-20	<5000	-15	<5000	10.2	<5000
Manganese	15	.7	anr							
Molybdenum	50	.6								
Nickel	40	.5	anr							
Potassium	10000	200	33.5	<10000	6.6	<10000	9.8	<10000	26.3	<10000
Selenium	10	2	1.3	<10	-0.60	<10	0.0	<10	-1.3	<10
Silver	10	.5	anr							
Sodium	10000	500	102	<10000	72.7	<10000	51.0	<10000	56.9	<10000
Strontium	10	.5								
Thallium	10	1.3	anr							
Tin	50	.7								
Titanium	10	.9								
Vanadium	50	.5	anr							
Zinc	20	3	anr							

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: FA6621
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA072913M1.ICP Date Analyzed: 07/29/13 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA10932 Units: ug/l

Time: / Sample ID:			15:57 CCB8		16:50 CCB9		17:08 CCB10	
Metal	RL	IDL	raw	final	raw	final	raw	final
Aluminum	200	15	5.1	<200	0.40	<200	15.8	<200
Antimony	6.0	1.3	-1.7	<6.0	-1.1	<6.0	-1.0	<6.0
Arsenic	10	1.6	2.9	<10	1.6	<10	2.1	<10
Barium	200	1	anr					
Beryllium	4.0	.5	anr					
Cadmium	5.0	.5	0.20	<5.0	0.20	<5.0	0.10	<5.0
Calcium	1000	50	12.4	<1000	5.4	<1000	18.5	<1000
Chromium	10	1.8	0.30	<10	0.20	<10	0.0	<10
Cobalt	50	.5	anr					
Copper	25	1	anr					
Iron	300	29	12.4	<300	12.0	<300	20.6	<300
Lead	5.0	1.1	anr					
Magnesium	5000	74	7.7	<5000	12.2	<5000	-31	<5000
Manganese	15	.7	anr					
Molybdenum	50	.6						
Nickel	40	.5	anr					
Potassium	10000	200	13.7	<10000	0.60	<10000	6.2	<10000
Selenium	10	2	0.40	<10	-0.60	<10	0.80	<10
Silver	10	.5	anr					
Sodium	10000	500	93.1	<10000	52.4	<10000	45.9	<10000
Strontium	10	.5						
Thallium	10	1.3	anr					
Tin	50	.7						
Titanium	10	.9						
Vanadium	50	.5	anr					
Zinc	20	3	anr					

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA6621
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA072913M1.ICP Date Analyzed: 07/29/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA10932 Units: ug/l

Time:		08:23			09:29			10:23	
Sample ID:	ICV	ICV1		CCV	CCV1		CCV	CCV2	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	39400	98.5	40000	40200	100.5	40000	39800	99.5
Antimony	2000	2000	100.0	2000	1980	99.0	2000	1980	99.0
Arsenic	2000	1980	99.0	2000	1980	99.0	2000	1970	98.5
Barium	anr								
Beryllium	anr								
Cadmium	2000	2010	100.5	2000	2000	100.0	2000	2000	100.0
Calcium	40000	40900	102.3	40000	41100	102.8	40000	40700	101.8
Chromium	2000	2030	101.5	2000	2030	101.5	2000	1980	99.0
Cobalt	anr								
Copper	anr								
Iron	40000	40300	100.8	40000	41400	103.5	40000	40600	101.5
Lead	anr								
Magnesium	40000	38900	97.3	40000	40500	101.3	40000	39400	98.5
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium	40000	40200	100.5	40000	39700	99.3	40000	39400	98.5
Selenium	2000	2010	100.5	2000	2020	101.0	2000	2030	101.5
Silver	anr								
Sodium	40000	40200	100.5	40000	39600	99.0	40000	38300	95.8
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium	anr								
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA6621
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA072913M1.ICP Date Analyzed: 07/29/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA10932 Units: ug/l

Time:		11:18			12:12			13:10	
Sample ID:	CCV	CCV3		CCV	CCV4		CCV	CCV5	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	39700	99.3	40000	39600	99.0	40000	40100	100.3
Antimony	2000	1980	99.0	2000	2000	100.0	2000	2010	100.5
Arsenic	2000	1970	98.5	2000	1980	99.0	2000	2000	100.0
Barium	anr								
Beryllium	anr								
Cadmium	2000	2000	100.0	2000	2000	100.0	2000	2020	101.0
Calcium	40000	40500	101.3	40000	40000	100.0	40000	40300	100.8
Chromium	2000	2010	100.5	2000	1990	99.5	2000	2010	100.5
Cobalt	anr								
Copper	anr								
Iron	40000	39900	99.8	40000	39500	98.8	40000	39900	99.8
Lead	anr								
Magnesium	40000	39400	98.5	40000	38800	97.0	40000	38700	96.8
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium	40000	39400	98.5	40000	39800	99.5	40000	40100	100.3
Selenium	2000	2010	100.5	2000	2030	101.5	2000	2050	102.5
Silver	anr								
Sodium	40000	38600	96.5	40000	39500	98.8	40000	39900	99.8
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium	anr								
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA6621
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA072913M1.ICP Date Analyzed: 07/29/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA10932 Units: ug/l

Time:		14:04			14:58			15:52	
Sample ID:	CCV	CCV6		CCV	CCV7		CCV	CCV8	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	40000	100.0	40000	40300	100.8	40000	39100	97.8
Antimony	2000	2020	101.0	2000	2020	101.0	2000	2010	100.5
Arsenic	2000	2010	100.5	2000	2010	100.5	2000	2010	100.5
Barium	anr								
Beryllium	anr								
Cadmium	2000	2040	102.0	2000	2040	102.0	2000	2060	103.0
Calcium	40000	40700	101.8	40000	40500	101.3	40000	40700	101.8
Chromium	2000	2030	101.5	2000	2040	102.0	2000	2020	101.0
Cobalt	anr								
Copper	anr								
Iron	40000	39800	99.5	40000	39600	99.0	40000	38500	96.3
Lead	anr								
Magnesium	40000	39500	98.8	40000	39400	98.5	40000	38800	97.0
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium	40000	40200	100.5	40000	40200	100.5	40000	39400	98.5
Selenium	2000	2030	101.5	2000	2020	101.0	2000	1990	99.5
Silver	anr								
Sodium	40000	40000	100.0	40000	40100	100.3	40000	39300	98.3
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium	anr								
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA6621
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA072913M1.ICP Date Analyzed: 07/29/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA10932 Units: ug/l

Time:		16:45			17:03	
Sample ID:	CCV	CCV9		CCV	CCV10	
Metal	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	39300	98.3	40000	39500	98.8
Antimony	2000	2020	101.0	2000	2010	100.5
Arsenic	2000	2030	101.5	2000	2020	101.0
Barium	anr					
Beryllium	anr					
Cadmium	2000	2060	103.0	2000	2050	102.5
Calcium	40000	40300	100.8	40000	40300	100.8
Chromium	2000	2040	102.0	2000	2050	102.5
Cobalt	anr					
Copper	anr					
Iron	40000	38200	95.5	40000	38400	96.0
Lead	anr					
Magnesium	40000	38900	97.3	40000	38800	97.0
Manganese	anr					
Molybdenum						
Nickel	anr					
Potassium	40000	39600	99.0	40000	39700	99.3
Selenium	2000	1960	98.0	2000	1970	98.5
Silver	anr					
Sodium	40000	39700	99.3	40000	39800	99.5
Strontium						
Thallium	anr					
Tin						
Titanium						
Vanadium	anr					
Zinc	anr					

(*) Outside of QC limits
(anr) Analyte not requested

HIGH STANDARD CHECK SUMMARY

Login Number: FA6621
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA072913M1.ICP Date Analyzed: 07/29/13 Methods: SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA10932 Units: ug/l

Time:		08:15	
Sample ID:	HSTD	HSTD1	
Metal	True	Results	% Rec
Aluminum	80000	79500	99.4
Antimony	4000	4040	101.0
Arsenic	4000	4030	100.8
Barium	anr		
Beryllium	anr		
Cadmium	4000	3970	99.3
Calcium	80000	79300	99.1
Chromium	4000	3960	99.0
Cobalt	anr		
Copper	anr		
Iron	80000	78600	98.3
Lead	anr		
Magnesium	80000	79800	99.8
Manganese	anr		
Molybdenum			
Nickel	anr		
Potassium	80000	80000	100.0
Selenium	4000	4010	100.3
Silver	anr		
Sodium	80000	79900	99.9
Strontium			
Thallium	anr		
Tin			
Titanium			
Vanadium	anr		
Zinc	anr		

(*) Outside of QC limits
(anr) Analyte not requested

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: FA6621
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA072913M1.ICP Date Analyzed: 07/29/13 Methods: SW846 6010C
QC Limits: CRI 70-130% CRIA 70-130% Run ID: MA10932 Units: ug/l

Time:			08:32		16:41	
Sample ID:	CRI	CRIA	CRIA1		CRIA2	
Metal	True	True	Results	% Rec	Results	% Rec
Aluminum	400	200	203	101.5	204	102.0
Antimony	10	5.0	4.9	98.0	4.8	96.0
Arsenic	20	10	11.9	119.0	12.7	127.0
Barium	400	200	anr			
Beryllium	10	5.0	anr			
Cadmium	10	5.0	5.2	104.0	5.1	102.0
Calcium	2000	1000	1120	112.0	1040	104.0
Chromium	20	10	9.8	98.0	10.2	102.0
Cobalt	100	50	anr			
Copper	50	25	anr			
Iron	600	300	313	104.3	310	103.3
Lead	10	5.0	anr			
Magnesium	10000	5000	4900	98.0	4790	95.8
Manganese	30	15	anr			
Molybdenum	100	50				
Nickel	80	40	anr			
Potassium	20000	10000	9720	97.2	9820	98.2
Selenium	20	10	9.8	98.0	8.6	86.0
Silver	20	10	anr			
Sodium	20000	10000	9710	97.1	9900	99.0
Strontium	20	10				
Thallium	20	10	anr			
Tin	100	50				
Titanium	20	10				
Vanadium	100	50	anr			
Zinc	40	20	anr			

(*) Outside of QC limits
(anr) Analyte not requested

INTERFERING ELEMENT CHECK STANDARDS SUMMARY
Part 1 - ICSA and ICSAB Standards

Login Number: FA6621
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA072913M1.ICP Date Analyzed: 07/29/13 Methods: SW846 6010C
QC Limits: 80 to 120 % Recovery Run ID: MA10932 Units: ug/l

Time:			09:18		09:25		16:54		16:59	
Sample ID:	ICSA	ICSAB	ICSA1		ICSAB1		ICSA2		ICSAB2	
Metal	True	True	Results	% Rec	Results	% Rec	Results	% Rec	Results	% Rec
Aluminum	500000	500000	507000	101.4	510000	102.0	501000	100.2	495000	99.0
Antimony		1000	0.0		999	99.9	-1.8		1020	102.0
Arsenic		1000	0.0		1010	101.0	1.8		1030	103.0
Barium		500	0.0		520	104.0	0.20		517	103.4
Beryllium		500	-0.20		499	99.8	-0.30		487	97.4
Cadmium		1000	0.0		901	90.1	2.0		923	92.3
Calcium	500000	500000	482000	96.4	485000	97.0	476000	95.2	473000	94.6
Chromium		500	0.0		476	95.2	-0.50		475	95.0
Cobalt		500	1.4		456	91.2	1.1		453	90.6
Copper		500	0.50		535	107.0	-1.3		539	107.8
Iron	200000	200000	187000	93.5	185000	92.5	174000	87.0	170000	85.0
Lead		1000	0.0		919	91.9	-0.70		926	92.6
Magnesium	500000	500000	510000	102.0	510000	102.0	490000	98.0	486000	97.2
Manganese		500	0.0		481	96.2	0.0		496	99.2
Molybdenum		1000	0.70		944	94.4	1.0		931	93.1
Nickel		1000	0.10		893	89.3	0.20		903	90.3
Potassium			22.1		3.5		6.4		19.3	
Selenium		1000	1.5		974	97.4	2.1		961	96.1
Silver		1000	0.60		995	99.5	0.60		1000	100.0
Sodium			103		83.4		187		176	
Strontium		1000	11.8		1020	102.0	11.8		1010	101.0
Thallium		1000	0.0		920	92.0	2.8		919	91.9
Tin		1000	4.3		909	90.9	4.8		914	91.4
Titanium		1000	-2.1		976	97.6	-2.0		1010	101.0
Vanadium		500	-0.90		473	94.6	-0.10		485	97.0
Zinc		1000	4.2		919	91.9	4.6		927	92.7

(*) Outside of QC limits
(anr) Analyte not requested

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA6621
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA073013M1.ICP Date Analyzed: 07/30/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10935
Parameters: Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
07:58	MA10935-STD1	1		STDA
08:03	MA10935-STD2	1		STDB
08:06	MA10935-STD3	1		STDC
08:10	MA10935-STD4	1		STDD
08:14	MA10935-HSTD1	1		
08:20	MA10935-ICV1	1		
08:27	MA10935-ICB1	1		
08:31	MA10935-CRIA1	1		
08:40	MA10935-ICSA1	1		
08:47	MA10935-ICSAB1	1		
08:54	MA10935-CCV1	1		
09:03	MA10935-CCB1	1		
09:09	MP25578-MB1	1		
09:13	MP25578-B1	1		
09:18	FA6726-15	1		(sample used for QC only; not part of login FA6621)
09:22	MP25578-D1	1		
09:27	MP25578-SD1	5		
09:33	MP25578-PS1	1		
09:37	MP25578-S1	1		
09:41	MP25578-S2	1		
09:46	ZZZZZZ	1		
09:50	ZZZZZZ	1		
09:55	MA10935-CCV2	1		
09:59	MA10935-CCB2	1		
10:03	ZZZZZZ	1		
10:08	ZZZZZZ	1		
10:12	ZZZZZZ	1		
10:17	ZZZZZZ	1		
10:21	ZZZZZZ	1		
10:26	ZZZZZZ	1		
10:30	ZZZZZZ	1		
10:35	ZZZZZZ	1		
10:39	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA6621
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA073013M1.ICP Date Analyzed: 07/30/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10935
Parameters: Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
10:44	ZZZZZZ	1		
10:48	MA10935-CCV3	1		
10:52	MA10935-CCB3	1		
10:57	ZZZZZZ	1		
11:01	ZZZZZZ	1		
11:06	ZZZZZZ	1		
11:10	ZZZZZZ	1		
11:15	ZZZZZZ	1		
11:19	ZZZZZZ	1		
11:24	ZZZZZZ	1		
11:28	MP25577-MB1	1		
11:33	MP25577-B1	1		
11:37	FA6808-1	1		(sample used for QC only; not part of login FA6621)
11:41	MA10935-CCV4	1		
11:45	MA10935-CCB4	1		
11:50	MP25577-D1	1		
11:54	MP25577-SD1	5		
11:59	MP25577-PS1	1		
12:03	MP25577-S1	1		
12:07	MP25577-S2	1		
12:12	ZZZZZZ	1		
12:16	ZZZZZZ	1		
12:21	ZZZZZZ	1		
12:25	ZZZZZZ	1		
12:30	ZZZZZZ	1		
12:34	MA10935-CCV5	1		
12:38	MA10935-CCB5	1		
12:43	ZZZZZZ	5		
12:47	ZZZZZZ	5		
12:52	ZZZZZZ	1		
12:56	ZZZZZZ	1		
13:01	ZZZZZZ	1		
13:05	MP25583-MB1	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA6621
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA073013M1.ICP Date Analyzed: 07/30/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10935
Parameters: Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
13:10	MP25583-B1	1		
13:14	FA6717-6	1		(sample used for QC only; not part of login FA6621)
13:18	MP25583-D1	1		
13:23	MP25583-SD1	5		
13:28	MA10935-CCV6	1		
13:32	MA10935-CCB6	1		
13:42	MP25583-S1	1		
13:47	MP25583-S2	1		
13:51	FA6731-1	1		(sample used for QC only; not part of login FA6621)
13:56	ZZZZZZ	1		
14:00	MP25583-MB2	1		
14:05	MP25583-B2	1		
14:10	MP25583-D2	1		
14:14	ZZZZZZ	1		
14:19	ZZZZZZ	1		
14:23	ZZZZZZ	1		
14:33	MA10935-CCV7	1		
14:39	MA10935-CCB7	1		
15:03	MA10935-CCV8	1		
15:08	MA10935-CCB8	1		
15:12	ZZZZZZ	1		
15:17	ZZZZZZ	1		
15:22	ZZZZZZ	1		
15:26	ZZZZZZ	1		
15:30	ZZZZZZ	1		
15:39	FA6740-1	5		(sample used for QC only; not part of login FA6621)
15:44	MP25579-D1	5		
15:48	MP25579-S1	5		
15:53	MP25579-S2	5		
15:57	MA10935-CCV9	1		
16:01	MA10935-CCB9	1		
16:06	MP25579-PS1	5		
16:10	MP25579-SD1	25		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA6621
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA073013M1.ICP Date Analyzed: 07/30/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10935
Parameters: Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
16:15	ZZZZZZ	5		
16:19	ZZZZZZ	25		
16:23	ZZZZZZ	5		
16:28	ZZZZZZ	10		
16:32	ZZZZZZ	4		
16:37	ZZZZZZ	5		
16:41	ZZZZZZ	4		
16:45	ZZZZZZ	4		
16:50	MA10935-CCV10	1		
16:54	MA10935-CCB10	1		
16:58	ZZZZZZ	5		
17:03	ZZZZZZ	4		
17:07	FA6731-2	200		(sample used for QC only; not part of login FA6621)
17:12	MP25566-D1	200		
17:17	MP25566-S1	200		
17:21	MP25566-S2	200		
17:26	MP25566-PS1	200		
17:30	MP25566-SD1	1000		
17:35	ZZZZZZ	5		
17:39	ZZZZZZ	10		
17:44	MA10935-CCV11	1		
17:48	MA10935-CCB11	1		
17:53	ZZZZZZ	10		
17:57	ZZZZZZ	5		
18:02	ZZZZZZ	5		
18:06	ZZZZZZ	5		
18:11	ZZZZZZ	2		
18:15	ZZZZZZ	4		
18:20	FA6621-1	5		
---------->	Last reportable sample/prep for job FA6621			
18:24	MA10935-CRIA2	1		
18:29	MA10935-ICSA2	1		
18:33	MA10935-ICSAB2	1		
18:38	MA10935-CCV12	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA6621
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA073013M1.ICP Date Analyzed: 07/30/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10935
Parameters: Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
18:42	MA10935-CCB12	1		
---------->	Last reportable CCB for job FA6621			
18:47	MA10935-CCV13	1		
18:51	MA10935-CCB13	1		

Refer to raw data for calibration curve and standards.

INTERNAL STANDARD SUMMARY

Login Number: FA6621
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA073013M1.ICP Date Analyzed: 07/30/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10935
Parameters: Na

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
07:58	MA10935-STD1	1901	21158	5867	1062
08:03	MA10935-STD2	1860	20586	5828	985
08:06	MA10935-STD3	1769	19617	5720	880
08:10	MA10935-STD4	1691	19039	5631	806
08:14	MA10935-HSTD1	1690	18979	5645	803
08:20	MA10935-ICV1	1765	19587	5720	877
08:27	MA10935-ICB1	1895 R	21217 R	5791 R	1055 R
08:31	MA10935-CRIA1	1874	20747	5776	1011
08:40	MA10935-ICSA1	1597	17456	5326	752
08:47	MA10935-ICSAB1	1598	17448	5305	745
08:54	MA10935-CCV1	1774	19643	5724	877
09:03	MA10935-CCB1	1895	21154	5811	1053
09:09	MP25578-MB1	1873	20995	5734	1049
09:13	MP25578-B1	1795	19719	5637	920
09:18	FA6726-15	1890	20835	5817	1008
09:22	MP25578-D1	1898	20929	5815	1013
09:27	MP25578-SD1	1921	21227	5843	1052
09:33	MP25578-PS1	1854	20256	5748	964
09:37	MP25578-S1	1788	19510	5661	898
09:41	MP25578-S2	1791	19539	5683	910
09:46	ZZZZZZ	1815	19898	5866	862
09:50	ZZZZZZ	1885	20728	5772	1024
09:55	MA10935-CCV2	1813	19830	5769	894
09:59	MA10935-CCB2	1926	21106	5858	1067
10:03	ZZZZZZ	1915	20991	5968	958
10:08	ZZZZZZ	1911	20910	5784	1046
10:12	ZZZZZZ	1927	21148	5824	1053
10:17	ZZZZZZ	1920	21108	5977	996
10:21	ZZZZZZ	1924	21079	5799	1060
10:26	ZZZZZZ	1953	21161	5871	1054
10:30	ZZZZZZ	1928	21018	5846	1052
10:35	ZZZZZZ	1910	20890	5777	1055
10:39	ZZZZZZ	1885	20412	5755	1006

INTERNAL STANDARD SUMMARY

Login Number: FA6621
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA073013M1.ICP Date Analyzed: 07/30/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10935
Parameters: Na

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
10:44	ZZZZZZ	1902	20698	5771	1036
10:48	MA10935-CCV3	1828	19800	5811	903
10:52	MA10935-CCB3	1933	20960	5836	1069
10:57	ZZZZZZ	1906	20708	5772	1037
11:01	ZZZZZZ	1903	20852	5704	1057
11:06	ZZZZZZ	1897	20681	5751	1035
11:10	ZZZZZZ	1909	20765	5749	1050
11:15	ZZZZZZ	1884	20165	5943	884
11:19	ZZZZZZ	1892	20397	5817	985
11:24	ZZZZZZ	1952	21173	5897	1041
11:28	MP25577-MB1	1907	20810	5755	1061
11:33	MP25577-B1	1806	19454	5661	925
11:37	FA6808-1	1951	20728	6189	876
11:41	MA10935-CCV4	1828	19660	5784	902
11:45	MA10935-CCB4	1933	20922	5865	1071
11:50	MP25577-D1	1986	21206	6099	980
11:54	MP25577-SD1	1922	20524	5887	994
11:59	MP25577-PS1	1936	20499	6099	867
12:03	MP25577-S1	1882	20080	5912	911
12:07	MP25577-S2	1885	20036	5890	918
12:12	ZZZZZZ	1989	21101	6067	995
12:16	ZZZZZZ	1996	21243	6164	973
12:21	ZZZZZZ	1987	21181	6086	994
12:25	ZZZZZZ	2020	21655	6181	1010
12:30	ZZZZZZ	2577 !	27766 !	7823 !	1018
12:34	MA10935-CCV5	1835	19675	5814	905
12:38	MA10935-CCB5	1948	20898	5839	1078
12:43	ZZZZZZ	2009	21583	6468	859
12:47	ZZZZZZ	2297	24648	7246	918
12:52	ZZZZZZ	1869	19997	5728	983
12:56	ZZZZZZ	1867	20080	5793	957
13:01	ZZZZZZ	2023	21288	6207	944
13:05	MP25583-MB1	1964	21216	6050	1112

INTERNAL STANDARD SUMMARY

Login Number: FA6621
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA073013M1.ICP Date Analyzed: 07/30/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10935
Parameters: Na

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
13:10	MP25583-B1	1859	19931	5889	955
13:14	FA6717-6	1800	19189	5820	923
13:18	MP25583-D1	1797	19181	5832	924
13:23	MP25583-SD1	1856	19939	5773	997
13:28	MA10935-CCV6	1790	19389	5719	886
13:32	MA10935-CCB6	1920	20721	5801	1071
13:42	MP25583-S1	1783	19032	5806	877
13:47	MP25583-S2	1789	18961	5786	881
13:51	FA6731-1	1796	19033	5827	924
13:56	ZZZZZZ	1782	18917	5815	920
14:00	MP25583-MB2	1783	18912	5813	921
14:05	MP25583-B2	1782	18861	5822	878
14:10	MP25583-D2	1779	18863	5817	921
14:14	ZZZZZZ	1763	18815	5620	926
14:19	ZZZZZZ	1860	19957	5748	1008
14:23	ZZZZZZ	1771	19023	5812	828
14:33	MA10935-CCV7	1792	19313	5720	888
14:39	MA10935-CCB7	1919	20616	5845	1065
15:03	MA10935-CCV8	1783	19271	5751	883
15:08	MA10935-CCB8	1914	20618	5824	1064
15:12	ZZZZZZ	1747	18652	5668	830
15:17	ZZZZZZ	1887	20374	5766	1038
15:22	ZZZZZZ	1919	20675	5888	1034
15:26	ZZZZZZ	1916	20634	5862	1037
15:30	ZZZZZZ	1898	20351	5836	1031
15:39	FA6740-1	2093	22174	6569	964
15:44	MP25579-D1	2061	21807	6462	966
15:48	MP25579-S1	2119	22412	6679	950
15:53	MP25579-S2	2106	22229	6665	946
15:57	MA10935-CCV9	1796	19306	5841	895
16:01	MA10935-CCB9	1914	20670	5872	1071
16:06	MP25579-PS1	2052	21869	6495	953
16:10	MP25579-SD1	1955	20784	6014	1029

INTERNAL STANDARD SUMMARY

Login Number: FA6621
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA073013M1.ICP Date Analyzed: 07/30/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10935
Parameters: Na

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
16:15	ZZZZZZ	2066	21943	6526	955
16:19	ZZZZZZ	2190	23337	6698	1060
16:23	ZZZZZZ	1988	21105	6356	926
16:28	ZZZZZZ	2062	21870	6417	1009
16:32	ZZZZZZ	2036	21509	6411	953
16:37	ZZZZZZ	1937	20528	6096	962
16:41	ZZZZZZ	2039	21576	6473	925
16:45	ZZZZZZ	2050	21579	6435	949
16:50	MA10935-CCV10	1806	19264	5797	902
16:54	MA10935-CCB10	1927	20522	5874	1078
16:58	ZZZZZZ	1915	20229	6064	941
17:03	ZZZZZZ	1808	19480	5826	991
17:07	FA6731-2	1891	20167	5896	1025
17:12	MP25566-D1	1900	20144	5865	1024
17:17	MP25566-S1	1900	20111	5860	1026
17:21	MP25566-S2	1905	20091	5847	1027
17:26	MP25566-PS1	1885	20046	5864	1021
17:30	MP25566-SD1	1909	20464	5859	1058
17:35	ZZZZZZ	1969	20859	6390	829
17:39	ZZZZZZ	1833	19344	5746	957
17:44	MA10935-CCV11	1806	19171	5796	897
17:48	MA10935-CCB11	1924	20455	5867	1070
17:53	ZZZZZZ	1845	19532	5798	974
17:57	ZZZZZZ	1736	18710	5691	896
18:02	ZZZZZZ	1748	18800	5639	911
18:06	ZZZZZZ	1762	18839	5682	891
18:11	ZZZZZZ	1744	18956	5710	919
18:15	ZZZZZZ	1828	19588	5781	980
18:20	FA6621-1	1778	19032	5682	925
18:24	MA10935-CRIA2	1885	20172	5836	1024
18:29	MA10935-ICSA2	1590	16865	5381	757
18:33	MA10935-ICSAB2	1578	16876	5359	744
18:38	MA10935-CCV12	1783	19171	5751	889

INTERNAL STANDARD SUMMARY

Login Number: FA6621
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA073013M1.ICP Date Analyzed: 07/30/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10935
Parameters: Na

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
18:42	MA10935-CCB12	1909	20545	5817	1068
18:47	MA10935-CCV13	1788	19186	5758	893
18:51	MA10935-CCB13	1906	20518	5824	1067

R = Reference for ISTD limits. ! = Outside limits.

LEGEND:

Istd#	Parameter	Limits
Istd#1	Yttrium (2243)	60-125 %
Istd#2	Yttrium (3600)	60-125 %
Istd#3	Yttrium (3710)	60-125 %
Istd#4	Indium	60-125 %

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: FA6621
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA073013M1.ICP Date Analyzed: 07/30/13 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA10935 Units: ug/l

Time:			08:27		09:03		09:59		10:52	
Sample ID:			ICB1		CCB1		CCB2		CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	15	anr							
Antimony	6.0	1.3	anr							
Arsenic	10	1.6	anr							
Barium	200	1	anr							
Beryllium	4.0	.5	anr							
Cadmium	4.0	.5	anr							
Calcium	1000	50	anr							
Chromium	10	1.8	anr							
Cobalt	50	.5	anr							
Copper	25	1	anr							
Iron	300	29	anr							
Lead	5.0	1.1	anr							
Magnesium	5000	74	anr							
Manganese	15	.7	anr							
Molybdenum	50	.6	anr							
Nickel	40	.5	anr							
Potassium	10000	200	anr							
Selenium	10	2	anr							
Silver	10	.5	anr							
Sodium	10000	500	3.6	<10000	7.8	<10000	6.0	<10000	5.5	<10000
Strontium	10	.5	anr							
Thallium	10	1.3	anr							
Tin	50	.7	anr							
Titanium	10	.9								
Vanadium	50	.5	anr							
Zinc	20	3	anr							

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: FA6621
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA073013M1.ICP Date Analyzed: 07/30/13 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA10935 Units: ug/l

Time:			11:45		12:38		13:32		14:39	
Sample ID:			CCB4		CCB5		CCB6		CCB7	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	15	anr							
Antimony	6.0	1.3	anr							
Arsenic	10	1.6	anr							
Barium	200	1	anr							
Beryllium	4.0	.5	anr							
Cadmium	4.0	.5	anr							
Calcium	1000	50	anr							
Chromium	10	1.8	anr							
Cobalt	50	.5	anr							
Copper	25	1	anr							
Iron	300	29	anr							
Lead	5.0	1.1	anr							
Magnesium	5000	74	anr							
Manganese	15	.7	anr							
Molybdenum	50	.6								
Nickel	40	.5	anr							
Potassium	10000	200	anr							
Selenium	10	2	anr							
Silver	10	.5	anr							
Sodium	10000	500	9.9	<10000	7.7	<10000	20.2	<10000	18.2	<10000
Strontium	10	.5	anr							
Thallium	10	1.3	anr							
Tin	50	.7								
Titanium	10	.9								
Vanadium	50	.5	anr							
Zinc	20	3	anr							

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: FA6621
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA073013M1.ICP Date Analyzed: 07/30/13 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA10935 Units: ug/l

Time: / Sample ID:			15:08 CCB8		16:01 CCB9		16:54 CCB10		17:48 CCB11	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	15	anr							
Antimony	6.0	1.3	anr							
Arsenic	10	1.6	anr							
Barium	200	1	anr							
Beryllium	4.0	.5	anr							
Cadmium	4.0	.5	anr							
Calcium	1000	50	anr							
Chromium	10	1.8	anr							
Cobalt	50	.5	anr							
Copper	25	1	anr							
Iron	300	29	anr							
Lead	5.0	1.1	anr							
Magnesium	5000	74	anr							
Manganese	15	.7	anr							
Molybdenum	50	.6								
Nickel	40	.5	anr							
Potassium	10000	200	anr							
Selenium	10	2	anr							
Silver	10	.5	anr							
Sodium	10000	500	7.7	<10000	3.9	<10000	1.5	<10000	8.0	<10000
Strontium	10	.5	anr							
Thallium	10	1.3	anr							
Tin	50	.7								
Titanium	10	.9								
Vanadium	50	.5	anr							
Zinc	20	3	anr							

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: FA6621
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA073013M1.ICP Date Analyzed: 07/30/13 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA10935 Units: ug/l

Time:			18:42	
Sample ID:			CCB12	
Metal	RL	IDL	raw	final
Aluminum	200	15	anr	
Antimony	6.0	1.3	anr	
Arsenic	10	1.6	anr	
Barium	200	1	anr	
Beryllium	4.0	.5	anr	
Cadmium	4.0	.5	anr	
Calcium	1000	50	anr	
Chromium	10	1.8	anr	
Cobalt	50	.5	anr	
Copper	25	1	anr	
Iron	300	29	anr	
Lead	5.0	1.1	anr	
Magnesium	5000	74	anr	
Manganese	15	.7	anr	
Molybdenum	50	.6		
Nickel	40	.5	anr	
Potassium	10000	200	anr	
Selenium	10	2	anr	
Silver	10	.5	anr	
Sodium	10000	500	3.6	<10000
Strontium	10	.5	anr	
Thallium	10	1.3	anr	
Tin	50	.7		
Titanium	10	.9		
Vanadium	50	.5	anr	
Zinc	20	3	anr	

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA6621
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA073013M1.ICP Date Analyzed: 07/30/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA10935 Units: ug/l

Time:		08:20			08:54			09:55	
Sample ID:	ICV	ICV1		CCV	CCV1		CCV	CCV2	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	anr								
Arsenic	anr								
Barium	anr								
Beryllium	anr								
Cadmium	anr								
Calcium	anr								
Chromium	anr								
Cobalt	anr								
Copper	anr								
Iron	anr								
Lead	anr								
Magnesium	anr								
Manganese	anr								
Molybdenum	anr								
Nickel	anr								
Potassium	anr								
Selenium	anr								
Silver	anr								
Sodium	40000	40200	100.5	40000	40100	100.3	40000	39500	98.8
Strontium	anr								
Thallium	anr								
Tin	anr								
Titanium									
Vanadium	anr								
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA6621
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA073013M1.ICP Date Analyzed: 07/30/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA10935 Units: ug/l

Time:		10:48			11:41			12:34	
Sample ID:	CCV	CCV3		CCV	CCV4		CCV	CCV5	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	anr								
Arsenic	anr								
Barium	anr								
Beryllium	anr								
Cadmium	anr								
Calcium	anr								
Chromium	anr								
Cobalt	anr								
Copper	anr								
Iron	anr								
Lead	anr								
Magnesium	anr								
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium	anr								
Selenium	anr								
Silver	anr								
Sodium	40000	39300	98.3	40000	39200	98.0	40000	39200	98.0
Strontium	anr								
Thallium	anr								
Tin									
Titanium									
Vanadium	anr								
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA6621
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA073013M1.ICP Date Analyzed: 07/30/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA10935 Units: ug/l

Time:		13:28			14:33			15:03	
Sample ID:	CCV	CCV6		CCV	CCV7		CCV	CCV8	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	anr								
Arsenic	anr								
Barium	anr								
Beryllium	anr								
Cadmium	anr								
Calcium	anr								
Chromium	anr								
Cobalt	anr								
Copper	anr								
Iron	anr								
Lead	anr								
Magnesium	anr								
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium	anr								
Selenium	anr								
Silver	anr								
Sodium	40000	39600	99.0	40000	39900	99.8	40000	39500	98.8
Strontium	anr								
Thallium	anr								
Tin									
Titanium									
Vanadium	anr								
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA6621
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA073013M1.ICP Date Analyzed: 07/30/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA10935 Units: ug/l

Time:		15:57			16:50			17:44	
Sample ID:	CCV	CCV9		CCV	CCV10		CCV	CCV11	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	anr								
Arsenic	anr								
Barium	anr								
Beryllium	anr								
Cadmium	anr								
Calcium	anr								
Chromium	anr								
Cobalt	anr								
Copper	anr								
Iron	anr								
Lead	anr								
Magnesium	anr								
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium	anr								
Selenium	anr								
Silver	anr								
Sodium	40000	39300	98.3	40000	39400	98.5	40000	39600	99.0
Strontium	anr								
Thallium	anr								
Tin									
Titanium									
Vanadium	anr								
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA6621
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA073013M1.ICP Date Analyzed: 07/30/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA10935 Units: ug/l

Time:		18:38	
Sample ID:	CCV	CCV12	
Metal	True	Results	% Rec
Aluminum	anr		
Antimony	anr		
Arsenic	anr		
Barium	anr		
Beryllium	anr		
Cadmium	anr		
Calcium	anr		
Chromium	anr		
Cobalt	anr		
Copper	anr		
Iron	anr		
Lead	anr		
Magnesium	anr		
Manganese	anr		
Molybdenum			
Nickel	anr		
Potassium	anr		
Selenium	anr		
Silver	anr		
Sodium	40000	39700	99.3
Strontium	anr		
Thallium	anr		
Tin			
Titanium			
Vanadium	anr		
Zinc	anr		

(*) Outside of QC limits
(anr) Analyte not requested

HIGH STANDARD CHECK SUMMARY

Login Number: FA6621
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA073013M1.ICP Date Analyzed: 07/30/13 Methods: SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA10935 Units: ug/l

Time:		08:14	
Sample ID:	HSTD	HSTD1	
Metal	True	Results	% Rec
Aluminum	anr		
Antimony	anr		
Arsenic	anr		
Barium	anr		
Beryllium	anr		
Cadmium	anr		
Calcium	anr		
Chromium	anr		
Cobalt	anr		
Copper	anr		
Iron	anr		
Lead	anr		
Magnesium	anr		
Manganese	anr		
Molybdenum	anr		
Nickel	anr		
Potassium	anr		
Selenium	anr		
Silver	anr		
Sodium	80000	80100	100.1
Strontium	anr		
Thallium	anr		
Tin	anr		
Titanium			
Vanadium	anr		
Zinc	anr		

(*) Outside of QC limits
(anr) Analyte not requested

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: FA6621
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA073013M1.ICP Date Analyzed: 07/30/13 Methods: SW846 6010C
QC Limits: CRI 70-130% CRIA 70-130% Run ID: MA10935 Units: ug/l

Time:			08:31		18:24	
Sample ID:	CRI	CRIA	CRIA1		CRIA2	
Metal	True	True	Results	% Rec	Results	% Rec
Aluminum	400	200	anr			
Antimony	10	5.0	anr			
Arsenic	20	10	anr			
Barium	400	200	anr			
Beryllium	10	5.0	anr			
Cadmium	10	5.0	anr			
Calcium	2000	1000	anr			
Chromium	20	10	anr			
Cobalt	100	50	anr			
Copper	50	25	anr			
Iron	600	300	anr			
Lead	10	5.0	anr			
Magnesium	10000	5000	anr			
Manganese	30	15	anr			
Molybdenum	100	50	anr			
Nickel	80	40	anr			
Potassium	20000	10000	anr			
Selenium	20	10	anr			
Silver	20	10	anr			
Sodium	20000	10000	9720	97.2	9790	97.9
Strontium	20	10	anr			
Thallium	20	10	anr			
Tin	100	50	anr			
Titanium	20	10				
Vanadium	100	50	anr			
Zinc	40	20	anr			

(*) Outside of QC limits
(anr) Analyte not requested

INTERFERING ELEMENT CHECK STANDARDS SUMMARY
Part 1 - ICSA and ICSAB Standards

Login Number: FA6621
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA073013M1.ICP Date Analyzed: 07/30/13 Methods: SW846 6010C
QC Limits: 80 to 120 % Recovery Run ID: MA10935 Units: ug/l

Time:			08:40		08:47		18:29		18:33	
Sample ID:	ICSA	ICSAB	ICSA1		ICSAB1		ICSA2		ICSAB2	
Metal	True	True	Results	% Rec	Results	% Rec	Results	% Rec	Results	% Rec
Aluminum	500000	500000	510000	102.0	512000	102.4	506000	101.2	506000	101.2
Antimony		1000	0.0		1010	101.0	3.3		1030	103.0
Arsenic		1000	0.60		1020	102.0	-0.90		1040	104.0
Barium		500	0.10		518	103.6	0.30		520	104.0
Beryllium		500	-0.10		504	100.8	-0.10		498	99.6
Cadmium		1000	0.0		911	91.1	-0.70		921	92.1
Calcium	500000	500000	493000	98.6	492000	98.4	485000	97.0	483000	96.6
Chromium		500	0.20		482	96.4	-0.30		476	95.2
Cobalt		500	1.4		455	91.0	1.4		458	91.6
Copper		500	0.0		536	107.2	0.0		547	109.4
Iron	200000	200000	188000	94.0	185000	92.5	183000	91.5	181000	90.5
Lead		1000	0.90		919	91.9	1.0		920	92.0
Magnesium	500000	500000	514000	102.8	512000	102.4	508000	101.6	505000	101.0
Manganese		500	0.50		492	98.4	0.20		492	98.4
Molybdenum		1000	0.60		941	94.1	1.1		947	94.7
Nickel		1000	0.20		892	89.2	0.30		905	90.5
Potassium			-33		-32		-16		2.9	
Selenium		1000	0.40		969	96.9	2.7		973	97.3
Silver		1000	0.20		1020	102.0	0.40		1010	101.0
Sodium			92.0		70.1		105		89.3	
Strontium		1000	12.0		1030	103.0	12.0		1030	103.0
Thallium		1000	0.0		902	90.2	-2.7		909	90.9
Tin		1000	4.9		909	90.9	5.2		918	91.8
Titanium		1000	-2.0		991	99.1	-1.2		1000	100.0
Vanadium		500	-0.60		483	96.6	0.40		484	96.8
Zinc		1000	4.6		927	92.7	4.7		929	92.9

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: FA6621
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

QC Batch ID: MP25574
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date:				07/29/13		07/29/13	
Metal	RL	IDL	MDL	MB raw	final	MB raw	final
Aluminum	200	15	15	-6.8	<200	0.70	<200
Antimony	6.0	1.3	1.3	-0.90	<6.0	-0.60	<6.0
Arsenic	10	1.6	2.5	0.70	<10	1.1	<10
Barium	200	1	1				
Beryllium	4.0	.5	.5				
Cadmium	5.0	.5	.5	-0.10	<5.0	-0.20	<5.0
Calcium	1000	50	50	1.4	<1000	-1.3	<1000
Chromium	10	1.8	2	-0.30	<10	-0.30	<10
Cobalt	50	.5	.5				
Copper	25	1	1				
Iron	300	29	29	-7.7	<300	-7.5	<300
Lead	5.0	1.1	1.1				
Magnesium	5000	74	74	-27	<5000	-43	<5000
Manganese	15	.7	.7				
Molybdenum	50	.6	1				
Nickel	40	.5	.5				
Potassium	10000	200	200	17.4	<10000	23.5	<10000
Selenium	10	2	2	-0.30	<10	-1.3	<10
Silver	10	.5	.5				
Sodium	10000	500	500	85.6	<10000	48.8	<10000
Strontium	10	.5	.5				
Thallium	10	1.3	1.3				
Tin	50	.7	1.8				
Titanium	10	.9	1				
Vanadium	50	.5	1				
Zinc	20	3	5				

Associated samples MP25574: FA6621-1, FA6621-2, FA6621-3, FA6621-4

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FA6621
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

QC Batch ID: MP25574
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date:			07/29/13					07/29/13	
Metal	FA6794-2 Original	DUP	RPD	QC Limits	FA6794-2 Original	MS	Spikelot MPFLICP1	% Rec	QC Limits
Aluminum	5170	6230	18.6	0-20	5170	34900	27000	110.1	80-120
Antimony	0.0	0.0	NC	0-20	0.0	438	500	87.6	80-120
Arsenic	3.1	3.0	3.3	0-20	3.1	1960	2000	97.8	80-120
Barium	anr								
Beryllium	anr								
Cadmium	0.0	0.0	NC	0-20	0.0	49.2	50	98.4	80-120
Calcium	5370	5670	5.4	0-20	5370	30600	25000	100.9	80-120
Chromium	4.9	6.1	21.8 (a)	0-20	4.9	213	200	104.1	80-120
Cobalt	anr								
Copper	anr								
Iron	2160	2250	4.1	0-20	2160	28400	26000	100.9	80-120
Lead	anr								
Magnesium	1790	1840	2.8	0-20	1790	25600	25000	95.2	80-120
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium	806	935	14.8	0-20	806	25800	25000	100.0	80-120
Selenium	2.1	2.9	32.0 (a)	0-20	2.1	1990	2000	99.4	80-120
Silver	anr								
Sodium	5560	5830	4.7	0-20	5560	30400	25000	99.4	80-120
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium	anr								
Zinc	anr								

Associated samples MP25574: FA6621-1, FA6621-2, FA6621-3, FA6621-4

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) RPD acceptable due to low duplicate and sample concentrations.

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FA6621
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

QC Batch ID: MP25574
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 07/29/13

Metal	FA6794-2 Original	MSD	Spikelot MPFLICP1	% Rec	MSD RPD	QC Limit
Aluminum	5170	35600	27000	112.7	2.0	20
Antimony	0.0	442	500	88.4	0.9	20
Arsenic	3.1	1980	2000	98.8	1.0	20
Barium	anr					
Beryllium	anr					
Cadmium	0.0	49.5	50	99.0	0.6	20
Calcium	5370	31700	25000	105.3	3.5	20
Chromium	4.9	211	200	103.1	0.9	20
Cobalt	anr					
Copper	anr					
Iron	2160	28500	26000	101.3	0.4	20
Lead	anr					
Magnesium	1790	25900	25000	96.4	1.2	20
Manganese	anr					
Molybdenum						
Nickel	anr					
Potassium	806	26200	25000	101.6	1.5	20
Selenium	2.1	2010	2000	100.4	1.0	20
Silver	anr					
Sodium	5560	30800	25000	101.0	1.3	20
Strontium						
Thallium	anr					
Tin						
Titanium						
Vanadium	anr					
Zinc	anr					

Associated samples MP25574: FA6621-1, FA6621-2, FA6621-3, FA6621-4

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: FA6621
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

QC Batch ID: MP25574
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 07/29/13

Metal	BSP Result	Spikelot MPFLICP1	% Rec	QC Limits
Aluminum	27200	27000	100.7	80-120
Antimony	504	500	100.8	80-120
Arsenic	1980	2000	99.0	80-120
Barium	anr			
Beryllium	anr			
Cadmium	50.0	50	100.0	80-120
Calcium	25700	25000	102.8	80-120
Chromium	206	200	103.0	80-120
Cobalt	anr			
Copper	anr			
Iron	26800	26000	103.1	80-120
Lead	anr			
Magnesium	24200	25000	96.8	80-120
Manganese	anr			
Molybdenum				
Nickel	anr			
Potassium	25300	25000	101.2	80-120
Selenium	2010	2000	100.5	80-120
Silver	anr			
Sodium	25100	25000	100.4	80-120
Strontium				
Thallium	anr			
Tin				
Titanium				
Vanadium	anr			
Zinc	anr			

Associated samples MP25574: FA6621-1, FA6621-2, FA6621-3, FA6621-4

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: FA6621
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

QC Batch ID: MP25574
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 07/29/13

Metal	FA6794-2 Original	SDL 1:5	%DIF	QC Limits
Aluminum	5170	4930	4.7	0-10
Antimony	0.00	0.00	NC	0-10
Arsenic	3.10	0.00	100.0(a)	0-10
Barium	anr			
Beryllium	anr			
Cadmium	0.00	0.00	NC	0-10
Calcium	5370	6980	29.8*(b)	0-10
Chromium	4.90	0.00	100.0(a)	0-10
Cobalt	anr			
Copper	anr			
Iron	2160	2020	6.2	0-10
Lead	anr			
Magnesium	1790	1990	10.9 (a)	0-10
Manganese	anr			
Molybdenum				
Nickel	anr			
Potassium	806	0.00	100.0(a)	0-10
Selenium	2.10	0.00	100.0(a)	0-10
Silver	anr			
Sodium	5560	6950	25.0 (a)	0-10
Strontium				
Thallium	anr			
Tin				
Titanium				
Vanadium	anr			
Zinc	anr			

Associated samples MP25574: FA6621-1, FA6621-2, FA6621-3, FA6621-4

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
(b) Serial dilution indicates possible matrix interference.

POST DIGESTATE SPIKE SUMMARY

Login Number: FA6621
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

QC Batch ID: MP25574
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 07/29/13

Metal	Sample ml	Final ml	FA6794-2 Raw	Corr.**	PS ug/l	Spike ml	Spike ug/ml	Spike ug/l	% Rec	QC Limits
Aluminum	9.8	10	5174	5070.52	7597	0.2	125	2500	101.1	80-120
Antimony	9.8	10			103.1	0.2	5	100	103.1	80-120
Arsenic	9.8	10	3.1	3.038	107.7	0.2	5	100	104.7	80-120
Barium										
Beryllium										
Cadmium	9.8	10			54.2	0.2	2.5	50	108.4	80-120
Calcium	9.8	10	5374	5266.52	11660	0.2	250	5000	127.9*(a	80-120
Chromium	9.8	10	4.9	4.802	58.2	0.2	2.5	50	106.8	80-120
Cobalt										
Copper										
Iron	9.8	10	2157	2113.86	5200	0.2	150	3000	102.9	80-120
Lead										
Magnesium	9.8	10	1793	1757.14	6674	0.2	250	5000	98.3	80-120
Manganese										
Molybdenum										
Nickel										
Potassium	9.8	10	805.8	789.684	10920	0.2	500	10000	101.3	80-120
Selenium	9.8	10	2.1	2.058	108.5	0.2	5	100	106.4	80-120
Silver										
Sodium	9.8	10	5562	5450.76	15630	0.2	500	10000	101.8	80-120
Strontium										
Thallium										
Tin										
Titanium										
Vanadium										
Zinc										

Associated samples MP25574: FA6621-1, FA6621-2, FA6621-3, FA6621-4

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(**) Corr. sample result = Raw * (sample volume / final volume)
(anr) Analyte not requested
(a) Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

Southeast ACCUTEST LABORATORIES

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries
- Instrument Runlogs/QC

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: FA6621
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Alkalinity, Total as CaCO3	GN56879	5.0	2.6	mg/l	250	249	99.6	90-113%
Alkalinity, Total as CaCO3	GN56880	5.0	2.2	mg/l	250	243	97.2	90-113%
Chloride	GP22141/GN56901	2.0	0.0	mg/l	50	50.4	100.8	90-110%
Chloride	GP22142/GN56901	2.0	0.0	mg/l	50	50.4	100.8	90-110%
Fluoride	GP22207/GN57083	0.20	0.0	mg/l	2.5	2.61	104.4	90-110%
Nitrogen, Nitrate	GP22141/GN56901	0.10	0.0	mg/l	2.5	2.57	102.8	90-110%
Nitrogen, Nitrate	GP22142/GN56901	0.10	0.0	mg/l	2.5	2.57	102.8	90-110%
Nitrogen, Nitrite	GP22141/GN56901	0.10	0.0	mg/l	2.5	2.63	105.2	90-110%
Phosphate, Ortho	GP22140/GN56896	0.10	0.0	mg/l	.300	0.30	101.0	83-116%
Phosphorus, Total	GP22149/GN56927	0.10	0.0	mg/l	.300	0.28	92.9	81-118%
Phosphorus, Total	GP22168/GN56978	0.10	0.0	mg/l	.300	0.32	106.0	81-118%
Solids, Total Dissolved	GN56969	100	18.0	mg/l				
Specific Conductivity	GN56863	1.0	0.0	umhos/cm				
Sulfate	GP22141/GN56901	2.0	0.0	mg/l	50	51.2	102.4	90-110%
Sulfate	GP22142/GN56901	2.0	0.0	mg/l	50	51.2	102.4	90-110%

Associated Samples:
Batch GN56863: FA6621-1, FA6621-2, FA6621-3, FA6621-4
Batch GN56879: FA6621-1
Batch GN56880: FA6621-2, FA6621-3, FA6621-4
Batch GN56969: FA6621-1, FA6621-2, FA6621-3, FA6621-4
Batch GP22140: FA6621-1F, FA6621-2F, FA6621-3F, FA6621-4F
Batch GP22141: FA6621-2, FA6621-3
Batch GP22142: FA6621-1, FA6621-4
Batch GP22149: FA6621-1, FA6621-3
Batch GP22168: FA6621-2, FA6621-4
Batch GP22207: FA6621-1, FA6621-2, FA6621-3, FA6621-4
(*) Outside of QC limits

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: FA6621
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Alkalinity, Total as CaCO3	GN56879	FA6447-2	mg/l	48.6	48.4	0.4	0-20%
Alkalinity, Total as CaCO3	GN56880	FA6621-2	mg/l	303	303	0.0	0-20%
Solids, Total Dissolved	GN56969	FA6621-4	mg/l	1010	1000	1.0	0-5%
Specific Conductivity	GN56863	FA6621-1	umhos/cm	4110	4110	0.0	0-10%
pH	GN56862	FA6604-1	su	6.76	6.76	0.0	0-10%

Associated Samples:
Batch GN56862: FA6621-1, FA6621-2, FA6621-3, FA6621-4
Batch GN56863: FA6621-1, FA6621-2, FA6621-3, FA6621-4
Batch GN56879: FA6621-1
Batch GN56880: FA6621-2, FA6621-3, FA6621-4
Batch GN56969: FA6621-1, FA6621-2, FA6621-3, FA6621-4
(*) Outside of QC limits

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: FA6621
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Chloride	GP22141/GN56901	FA6576-3	mg/l	316	50	376	120.0(a)	90-110%
Chloride	GP22142/GN56901	FA6621-4	mg/l	26.6	50	75.2	97.2	90-110%
Fluoride	GP22207/GN57083	FA6608-1	mg/l	0.43	2.5	4.1	146.8N(b)	90-110%
Nitrogen, Nitrate	GP22141/GN56901	FA6576-3	mg/l	2.5 U	2.5	4.4	176.0N(b)	90-110%
Nitrogen, Nitrate	GP22142/GN56901	FA6621-4	mg/l	3.2	2.5	5.7	100.0	90-110%
Nitrogen, Nitrite	GP22141/GN56901	FA6576-3	mg/l	2.5 U	2.5	3.6	144.0N(b)	90-110%
Phosphate, Ortho	GP22140/GN56896	FA6621-4F	mg/l	24.9	30.0	34.7	32.6*(b)	83-116%
Phosphorus, Total	GP22149/GN56927	FA6570-2	mg/l	0.17	.300	0.50	110.0	81-118%
Phosphorus, Total	GP22168/GN56978	FA6621-4	mg/l	1.1	.300	2.1	328.0*(b)	81-118%
Sulfate	GP22141/GN56901	FA6576-3	mg/l	2920	50	2850	-140.0(a)	90-110%
Sulfate	GP22142/GN56901	FA6621-4	mg/l	268	50	323	110.0	90-110%

Associated Samples:
Batch GP22140: FA6621-1F, FA6621-2F, FA6621-3F, FA6621-4F
Batch GP22141: FA6621-2, FA6621-3
Batch GP22142: FA6621-1, FA6621-4
Batch GP22149: FA6621-1, FA6621-3
Batch GP22168: FA6621-2, FA6621-4
Batch GP22207: FA6621-1, FA6621-2, FA6621-3, FA6621-4
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(a) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.
(b) Spike recovery indicates possible matrix interference.

MATRIX SPIKE DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: FA6621
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MSD Result	RPD	QC Limit
Chloride	GP22141/GN56901	FA6576-3	mg/l	316	50	381	1.3	20%
Chloride	GP22142/GN56901	FA6621-4	mg/l	26.6	50	77.9	3.5	20%
Fluoride	GP22207/GN57083	FA6608-1	mg/l	0.43	2.5	4.1	0.0	20%
Nitrogen, Nitrate	GP22141/GN56901	FA6576-3	mg/l	2.5 U	2.5	4.3	2.3	20%
Nitrogen, Nitrate	GP22142/GN56901	FA6621-4	mg/l	3.2	2.5	5.9	3.4	20%
Nitrogen, Nitrite	GP22141/GN56901	FA6576-3	mg/l	2.5 U	2.5	3.7	2.7	20%
Phosphate, Ortho	GP22140/GN56896	FA6621-4F	mg/l	24.9	30.0	33.2	4.2	26%
Phosphorus, Total	GP22149/GN56927	FA6570-2	mg/l	0.17	.300	0.491	1.7	22%
Phosphorus, Total	GP22168/GN56978	FA6621-4	mg/l	1.1	.300	2.16	2.4	22%
Sulfate	GP22141/GN56901	FA6576-3	mg/l	2920	50	2850	0.0	20%
Sulfate	GP22142/GN56901	FA6621-4	mg/l	268	50	330	2.1	20%

Associated Samples:
Batch GP22140: FA6621-1F, FA6621-2F, FA6621-3F, FA6621-4F
Batch GP22141: FA6621-2, FA6621-3
Batch GP22142: FA6621-1, FA6621-4
Batch GP22149: FA6621-1, FA6621-3
Batch GP22168: FA6621-2, FA6621-4
Batch GP22207: FA6621-1, FA6621-2, FA6621-3, FA6621-4
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA6621
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: 313200701.TXT Date Analyzed: 07/20/13 Methods: EPA 300/SW846 9056A
Analyst: AC Run ID: GN56901
Parameters: Chloride,Nitrogen, Nitrate,Sulfate

Time	Sample Description	Dilution Factor	PS Recov	Comments
08:21	GN56901-CCV1	1		
08:36	GP22141-MB1	1		
08:52	GP22141-B1	1		
09:40	ZZZZZZ	25		
09:56	ZZZZZZ	50		
10:12	FA6576-3	50		(sample used for QC only; not part of login FA6621)
10:28	ZZZZZZ	10		
10:44	ZZZZZZ	10		
11:00	ZZZZZZ	1		
11:16	GN56901-CCV2	1		
11:31	GN56901-CCB1	1		
11:47	ZZZZZZ	25		
12:03	ZZZZZZ	25		
12:19	ZZZZZZ	25		
12:35	ZZZZZZ	50		
12:51	FA6621-3	10		
13:07	FA6621-2	10		
13:23	ZZZZZZ	1		
13:39	FA6575-17	5		(sample used for QC only; not part of login FA6621)
13:55	ZZZZZZ	50		
14:11	ZZZZZZ	50		
14:26	GN56901-CCV3	1		
14:42	GN56901-CCB2	1		
14:58	ZZZZZZ	50		
15:14	ZZZZZZ	1		
15:30	ZZZZZZ	25		
15:46	ZZZZZZ	50		
16:02	GP22141-S1	50		
16:18	GP22141-S2	50		
16:34	GP22141-S3	5		
16:50	GP22141-S4	5		
17:06	GN56901-CCV4	1		
17:22	GP22142-MB1	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA6621
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: 313200701.TXT Date Analyzed: 07/20/13 Methods: EPA 300/SW846 9056A
Analyst: AC Run ID: GN56901
Parameters: Chloride,Nitrogen, Nitrate,Sulfate

Time	Sample Description	Dilution Factor	PS Recov	Comments
17:37	GP22142-B1	1		
18:25	ZZZZZZ	25		
18:41	ZZZZZZ	25		
18:57	FA6621-1	25		
19:13	FA6621-4	5		
19:29	GP22142-S1	5		
19:45	GP22142-S2	5		
20:01	GN56901-CCV5	1		
20:16	GN56901-CCB3	1		

Refer to raw data for calibration curve and standards.

Instrument QC Summary
Inorganics Analyses

Login Number: FA6621
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: 313200701.TXT Date Analyzed: 07/20/13 Methods: EPA 300/SW846 9056A
Run ID: GN56901 Units: mg/l

Sample Number	Parameter	Result	RL	IDL/MDL	True Value	% Recov.	QC Limits
GN56901-CCV1	Chloride	51.5	2.0	0.80	50	103.0	90-110
GN56901-CCV1	Nitrogen, Nitrate	2.6	0.10	0.050	2.5	104.0	90-110
GN56901-CCV1	Sulfate	50.8	2.0	0.60	50	101.6	90-110
GN56901-CCV2	Chloride	51.5	2.0	0.80	50	103.0	90-110
GN56901-CCV2	Nitrogen, Nitrate	2.6	0.10	0.050	2.5	104.0	90-110
GN56901-CCV2	Sulfate	51.0	2.0	0.60	50	102.0	90-110
GN56901-CCB1	Chloride	0.80 U	2.0	0.80			
GN56901-CCB1	Nitrogen, Nitrate	0.050 U	0.10	0.050			
GN56901-CCB1	Sulfate	0.60 U	2.0	0.60			
GN56901-CCV3	Chloride	51.5	2.0	0.80	50	103.0	90-110
GN56901-CCV3	Nitrogen, Nitrate	2.6	0.10	0.050	2.5	104.0	90-110
GN56901-CCV3	Sulfate	50.7	2.0	0.60	50	101.4	90-110
GN56901-CCB2	Chloride	0.80 U	2.0	0.80			
GN56901-CCB2	Nitrogen, Nitrate	0.050 U	0.10	0.050			
GN56901-CCB2	Sulfate	0.60 U	2.0	0.60			
GN56901-CCV4	Chloride	51.5	2.0	0.80	50	103.0	90-110
GN56901-CCV4	Nitrogen, Nitrate	2.6	0.10	0.050	2.5	104.0	90-110
GN56901-CCV4	Sulfate	50.8	2.0	0.60	50	101.6	90-110
GN56901-CCV5	Chloride	51.6	2.0	0.80	50	103.2	90-110
GN56901-CCV5	Nitrogen, Nitrate	2.6	0.10	0.050	2.5	104.0	90-110
GN56901-CCV5	Sulfate	51.0	2.0	0.60	50	102.0	90-110
GN56901-CCB3	Chloride	0.80 U	2.0	0.80			
GN56901-CCB3	Nitrogen, Nitrate	0.050 U	0.10	0.050			
GN56901-CCB3	Sulfate	0.60 U	2.0	0.60			

(!) Outside of QC limits

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA6621
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: 313220701.TXT Date Analyzed: 07/22/13 Methods: EPA 300/SW846 9056A
Analyst: AC Run ID: GN56903
Parameters: Nitrogen, Nitrate

Time	Sample Description	Dilution Factor	PS Recov	Comments
13:22	GN56903-CCV1	1		
14:41	ZZZZZZ	50		
14:57	ZZZZZZ	50		
15:13	ZZZZZZ	25		
15:29	ZZZZZZ	50		
15:45	ZZZZZZ	50		
16:00	ZZZZZZ	50		
16:16	GN56903-CCV2	1		
16:32	GN56903-CCB1	1		
16:48	ZZZZZZ	50		
17:04	ZZZZZZ	2		
17:20	ZZZZZZ	10		
17:52	GP22109-S5	5		
18:08	GP22109-S6	5		
18:24	ZZZZZZ	25		
18:40	FA6508-4	25		(sample used for QC only; not part of login FA6621)
18:55	ZZZZZZ	10		
19:11	ZZZZZZ	25		
19:27	GN56903-CCV3	1		
19:43	GN56903-CCB2	1		
19:59	GP22112-S1	25		
20:15	GP22112-S2	25		
20:31	ZZZZZZ	5		
20:47	ZZZZZZ	10		
21:03	ZZZZZZ	5		
21:19	ZZZZZZ	2		
21:35	FA6621-1	50		
22:06	GN56903-CCV4	1		
23:26	ZZZZZZ	25		
23:42	ZZZZZZ	50		
23:58	ZZZZZZ	50		
00:14	FA6522-3	25		(sample used for QC only; not part of login FA6621)
00:30	GP22134-S1	25		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA6621
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: 313220701.TXT Date Analyzed: 07/22/13 Methods: EPA 300/SW846 9056A
Analyst: AC Run ID: GN56903
Parameters: Nitrogen, Nitrate

Time	Sample Description	Dilution Factor	PS Recov	Comments
00:46	GP22134-S2	25		
01:02	GN56903-CCV5	1		
01:17	GN56903-CCB3	1		

Refer to raw data for calibration curve and standards.

Instrument QC Summary
Inorganics Analyses

Login Number: FA6621
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: 313220701.TXT Date Analyzed: 07/22/13 Methods: EPA 300/SW846 9056A
Run ID: GN56903 Units: mg/l

Sample Number	Parameter	Result	RL	IDL/MDL	True Value	% Recov.	QC Limits
GN56903-CCV1	Nitrogen, Nitrate	2.5	0.10	0.050	2.5	100.0	90-110
GN56903-CCV2	Nitrogen, Nitrate	2.5	0.10	0.050	2.5	100.0	90-110
GN56903-CCB1	Nitrogen, Nitrate	0.050 U	0.10	0.050			
GN56903-CCV3	Nitrogen, Nitrate	2.5	0.10	0.050	2.5	100.0	90-110
GN56903-CCB2	Nitrogen, Nitrate	0.050 U	0.10	0.050			
GN56903-CCV4	Nitrogen, Nitrate	2.5	0.10	0.050	2.5	100.0	90-110
GN56903-CCV5	Nitrogen, Nitrate	2.5	0.10	0.050	2.5	100.0	90-110
GN56903-CCB3	Nitrogen, Nitrate	0.050 U	0.10	0.050			

(!) Outside of QC limits

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA6621
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: 313230701.TXT Date Analyzed: 07/23/13 Methods: EPA 300/SW846 9056A
Analyst: AC Run ID: GN56951
Parameters: Sulfate

Time	Sample Description	Dilution Factor	PS Recov	Comments
10:24	GN56951-CCV1	1		
10:39	GP22156-MB1	1		
10:55	GP22156-B1	1		
11:43	ZZZZZZ	25		
12:00	ZZZZZZ	10		
12:17	ZZZZZZ	1		
12:34	ZZZZZZ	1		
12:51	ZZZZZZ	1		
13:07	ZZZZZZ	1		
13:24	GN56951-CCV2	1		
13:42	GN56951-CCB1	1		
13:59	ZZZZZZ	5		
14:15	FA6655-2	5		(sample used for QC only; not part of login FA6621)
14:32	FA6664-1	2		(sample used for QC only; not part of login FA6621)
14:49	GP22156-S1	2		
15:06	GP22156-S2	2		
15:22	FA6621-3	25		
15:38	FA6621-2	25		
15:54	ZZZZZZ	50		
16:42	GN56951-CCV3	1		
16:58	GN56951-CCB2	1		

Refer to raw data for calibration curve and standards.

Instrument QC Summary
Inorganics Analyses

Login Number: FA6621
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: 313230701.TXT Date Analyzed: 07/23/13 Methods: EPA 300/SW846 9056A
Run ID: GN56951 Units: mg/l

Sample Number	Parameter	Result	RL	IDL/MDL	True Value	% Recov.	QC Limits
GN56951-CCV1	Sulfate	51.1	2.0	0.60	50	102.2	90-110
GN56951-CCV2	Sulfate	51.2	2.0	0.60	50	102.4	90-110
GN56951-CCB1	Sulfate	0.60 U	2.0	0.60			
GN56951-CCV3	Sulfate	51.0	2.0	0.60	50	102.0	90-110
GN56951-CCB2	Sulfate	0.60 U	2.0	0.60			

(!) Outside of QC limits

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA6621
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: 213310701.TXT Date Analyzed: 07/31/13 Methods: EPA 300/SW846 9056A
Analyst: AA Run ID: GN57083
Parameters: Fluoride

Time	Sample Description	Dilution Factor	PS Recov	Comments
09:25	GN57083-CCV1	1		
09:41	GP22207-MB1	1		
09:58	GP22207-B1	1		
10:49	ZZZZZZ	25		
11:06	ZZZZZZ	25		
11:22	ZZZZZZ	25		
11:39	ZZZZZZ	1		
11:56	FA6608-1	1		(sample used for QC only; not part of login FA6621)
12:13	FA6608-2	1		(sample used for QC only; not part of login FA6621)
12:30	GN57083-CCV2	1		
12:47	GN57083-CCB1	1		
13:04	ZZZZZZ	1		
13:21	ZZZZZZ	1		
13:38	ZZZZZZ	1		
13:55	FA6621-1	25		
14:12	FA6621-2	10		
14:29	FA6621-3	10		
14:45	FA6621-4	5		
15:02	GP22207-S1	1		
15:41	GP22207-S2	1		
16:25	GN57083-CCV3	1		
16:42	GN57083-CCB2	1		
16:59	GP22207-S3	1		
17:16	GP22207-S4	1		
17:50	GP22198-S1	1		
18:07	GP22198-S2	1		
18:24	GN57083-CCV4	1		
18:40	GN57083-CCB3	1		

Refer to raw data for calibration curve and standards.

Instrument QC Summary
Inorganics Analyses

Login Number: FA6621
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: 213310701.TXT Date Analyzed: 07/31/13 Methods: EPA 300/SW846 9056A
Run ID: GN57083 Units: mg/l

Sample Number	Parameter	Result	RL	IDL/MDL	True Value	% Recov.	QC Limits
GN57083-CCV1	Fluoride	2.5	0.20	0.060	2.5	100.0	90-110
GN57083-CCV2	Fluoride	2.7	0.20	0.060	2.5	108.0	90-110
GN57083-CCB1	Fluoride	0.060 U	0.20	0.060			
GN57083-CCV3	Fluoride	2.7	0.20	0.060	2.5	108.0	90-110
GN57083-CCB2	Fluoride	0.060 U	0.20	0.060			
GN57083-CCV4	Fluoride	2.5	0.20	0.060	2.5	100.0	90-110
GN57083-CCB3	Fluoride	0.060 U	0.20	0.060			

(!) Outside of QC limits

Southeast
ACCUTEST LABORATORIES

08/13/13

Technical Report for

WSP Environment & Energy

Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID 36785.01

Accutest Job Number: FA6621R

Sampling Dates: 07/18/13 - 07/19/13

Report to:

WSP Environment & Energy
205 West Park Street
Jackson, MO 63755
tim.huff@wspgroup.com

ATTN: Tim Huff

Total number of pages in report: **18**

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Harry Behzadi, Ph.D.
Laboratory Director

Client Service contact: Andrea Colby 407-425-6700

Certifications: FL (E83510), LA (03051), KS (E-10327), IA (366), IL (200063), NC (573), NJ (FL002), SC (96038001) DoD ELAP (L-A-B L2229), CA (04226CA), TX (T104704404), AK, AR, GA, KY, MA, NV, OK, UT, VA, WA, WI

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Sample Summary

WSP Environment & Energy

Job No: FA6621R

Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID
Project No: 36785.01

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA6621-2FR	07/18/13	14:00	TP	07/20/13	AQ	Groundwater Filtered	DUP07182013
FA6621-2R	07/18/13	14:00	TP	07/20/13	AQ	Ground Water	DUP07182013
FA6621-4FR	07/19/13	11:25	TP	07/20/13	AQ	Groundwater Filtered	MWB-120
FA6621-4R	07/19/13	11:25	TP	07/20/13	AQ	Ground Water	MWB-120

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: WSP Environment & Energy **Job No:** FA6621R

Site: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID **Report Date:** 8/13/2013 5:52:16 PM

2 Sample(s) were collected on/between 07/18/2013 and 07/19/2013 and were received at Accutest SE on 07/20/2013 properly preserved, at 2.8 Deg. C and intact. These Samples received an Accutest job number of FA6621R. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Wet Chemistry By Method EPA 365.3

Matrix: AQ **Batch ID:** GP22232

All method blanks for this batch meet method specific criteria.

Sample(s) FA6957-1MSD, FA6957-1MS were used as the QC samples for Phosphorus, Total.

The following samples were prepped outside of holding time for method EPA 365.3: FA6621-2R, FA6621-4R

Matrix Spike Recovery(s) for Phosphorus, Total are outside control limits. Spike recovery indicates possible matrix interference. For method performance in a clean matrix, refer to Blank Spike.

Matrix: AQ **Batch ID:** GP22290

All method blanks for this batch meet method specific criteria.

Sample(s) FA6621-2FRMS, FA6621-2FRMSD were used as the QC samples for Phosphate, Ortho.

The following samples were prepped outside of holding time for method EPA 365.3: FA6621-2FR, FA6621-4FR. Samples analyzed beyond hold time due to re-analysis.

Accutest Laboratories Southeast (ALSE) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALSE and as stated on the COC. ALSE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the ALSE Quality Manual except as noted above. This report is to be used in its entirety. ALSE is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

_____

Kim Benham, Client Services (signature on file)

Date: August 13, 2013

Summary of Hits

Job Number: FA6621R
Account: WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID
Collected: 07/18/13 thru 07/19/13

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA6621-2FR	**DUP07182013**					
Phosphate, Ortho [a]		0.51	0.20	0.040	mg/l	EPA 365.3
FA6621-2R	**DUP07182013**					
Phosphorus, Total		0.70	0.20	0.056	mg/l	EPA 365.3
FA6621-4FR	**MWB-120**					
Phosphate, Ortho [a]		2.5	0.50	0.095	mg/l	EPA 365.3
FA6621-4R	**MWB-120**					
Phosphorus, Total		1.5	0.50	0.14	mg/l	EPA 365.3

(a) Sample analyzed beyond hold time due to re-analysis.

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Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	DUP07182013		
Lab Sample ID:	FA6621-2FR	**Date Sampled:**	07/18/13
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/20/13
		Percent Solids:	n/a
Project:	Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Phosphate, Ortho [a]	0.51	0.20	0.040	mg/l	2	08/02/13 11:15	LE	EPA 365.3

(a) Sample analyzed beyond hold time due to re-analysis.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	DUP07182013		
Lab Sample ID:	FA6621-2R	**Date Sampled:**	07/18/13
Matrix:	AQ - Ground Water	**Date Received:**	07/20/13
		Percent Solids:	n/a
Project:	Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Phosphorus, Total	0.70	0.20	0.056	mg/l	2	08/05/13 09:15	LE	EPA 365.3

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	MWB-120		
Lab Sample ID:	FA6621-4FR	**Date Sampled:**	07/19/13
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/20/13
		Percent Solids:	n/a
Project:	Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Phosphate, Ortho [a]	2.5	0.50	0.095	mg/l	5	08/02/13 11:15	LE	EPA 365.3

(a) Sample analyzed beyond hold time due to re-analysis.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	MWB-120		
Lab Sample ID:	FA6621-4R	**Date Sampled:**	07/19/13
Matrix:	AQ - Ground Water	**Date Received:**	07/20/13
		Percent Solids:	n/a
Project:	Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Phosphorus, Total	1.5	0.50	0.14	mg/l	5	08/05/13 09:15	LE	EPA 365.3

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

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Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

Accutest Laboratories Southeast
Chain of Custody

ACCUTEST LABORATORIES

4405 Vineland Road, Suite C-15 Orlando, Fl 32811
TEL. 407-425-6700 • FAX: 407-425-0707
www.accutest.com

FA6621

Accutest JOB #

PAGE 1 OF 1

Accutest Quote #

SKIFF#

Client / Reporting Information

Company Name: WSP ENV + ENG
Address: 205 W. PARK ST.
City: JACKSON State: MO Zip: 63755
Project Contact: TIM HUFF E-mail: Tim.Huff@wspgroup.com
Phone#: 571-217-6759
Sampler(s) Name(s) (Printed):

Project Information

Project Name: AGRIUM
Street:
City: State:
Project #:
Fax #:
Client Purchase Order #:

Analytical Information

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL - Sludge
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe

Accutest Sample #	Field ID / Point of Collection	Collection: Date	Collection: Time	Sampled By:	Matrix	Total # of Bottles	Other	None	HCl	NaOH	HNO3	H2SO4	NaOH+ZnAc	DI Water	MeOH	Lab Use Only
1	MWA-110	07/19/13	0955	TP	GW	4		X			X	X				
2	DUP07152013	07/18/13	1400	TP	GW	4		X			X	X				
3	A-35-155	07/18/13	1335	TP	GW	4		X			X	X				
4	MWB-120	07/19/13	1125	TP	GW	4		X			X	X				

TURNAROUND TIME (Business Days)

Approved By: / Rush Code

- [x] 10 Days Standard
- [ ] 7 Day RUSH
- [ ] 5 Day RUSH
- [ ] 3 Day EMERGENCY
- [ ] 2 Day EMERGENCY
- [ ] 1 Day EMERGENCY
- [ ] OTHER

Emergency or Rush T/A Data Available VIA Email or Lablink

Data Deliverable Information

- [ ] COMMERCIAL "A" (RESULTS ONLY)
- [ ] COMMERCIAL "B" (RESULTS PLUS QC)
- [ ] REDT1 (EPA LEVEL 3)
- [ ] FULT1 (EPA LEVEL 4)
- [ ] EDD'S

Comments / Remarks

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished by:	Date Time:	Received By:
1		2 FP	3 FP 07-20-13	9:05	4 [signature]
Relinquished by: 5	Date Time:	Received By: 6	Relinquished by: 7	Date Time:	Received By: 8

Lab Use Only: Custody Seal in Place: Y N Temp Blank Provided: Y N Preserved where Applicable: Y N Total # of Coolers: Cooler Temperature (s) Celsius: 2.8

5.1

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FA6621R: Chain of Custody
Page 1 of 3

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: FA6621 CLIENT: WSP PROJECT: Agrium

DATE/TIME RECEIVED: 07-20-13 915 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 1

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 8017 3246 6898

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET
- [ ] WET ICE PRESENT

TRIP BLANK INFORMATION

- [ ] TRIP BLANK PROVIDED
- [V] TRIP BLANK NOT PROVIDED
- [V] TRIP BLANK NOT ON COC
- [ ] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [ ] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM_____ 5-GRAM_____

NUMBER OF 5035 FIELD KITS ? _____

NUMBER OF LAB FILTERED METALS ? _____

TEMPERATURE INFORMATION

- [ ] IR THERM ID 3 CORR. FACTOR -0.4
- [ ] OBSERVED TEMPS: 2-4
- [ ] CORRECTED TEMPS: 2-8

SAMPLE INFORMATION

- [ ] SAMPLE LABELS PRESENT ON ALL BOTTLES
- [ ] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] 5035 FIELD KIT FROZEN WITHIN 48 HOUR'S
- [ ] RESIDUAL CHLORINE PRESENT

{APPICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

SUMMARY OF COMMENTS: _____

TECHNICIAN SIGNATURE/DATE R Will 07-20-13 REVIEWER SIGNATURE/DATE 07/20/2013

NF 12/10

receipt confirmation 122910.xls

5.1 5

FA6621R: Chain of Custody
Page 2 of 3

Job Change Order: FA6621_8/12/2013

Requested Date:	8/12/2013	**Received Date:**	7/20/2013
Account Name:	WSP Environment & Energy	**Due Date:**	8/5/2013
Project Description:	Nu-West Conda Phosphate Operations, 3010	**Deliverable:**	REDT1
CSR:	AC	**TAT (Days):**	1

Sample #:
FA6621-2, 2F, 4, 4F

Change: Please report the TPO4 and OPO4 reruns for these samples on a separate report.

Above Changes Tim Huff **Date:** 8/12/2013

To Client: This Change Order is confirmation of the revisions, previously discussed with the Accutest Client Service Representative.

Page 1 of 1

FA6621R: Chain of Custody
Page 3 of 3

Southeast ACCUTEST LABORATORIES

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: FA6621R
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Phosphate, Ortho	GP22290/GN57264	0.10	0.0	mg/l	.300	0.31	104.1	83-116%
Phosphorus, Total	GP22232/GN57130	0.10	0.0	mg/l	.300	0.29	97.1	81-118%

Associated Samples:
Batch GP22232: FA6621-2R, FA6621-4R
Batch GP22290: FA6621-2FR, FA6621-4FR
(*) Outside of QC limits

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: FA6621R
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Phosphate, Ortho	GP22290/GN57264	FA6621-2FR	mg/l	0.51	1.50	2.0	96.5	83-116%
Phosphorus, Total	GP22232/GN57130	FA6957-1	mg/l	1730	3000	1810	2.7*(a)	81-118%

Associated Samples:
Batch GP22232: FA6621-2R, FA6621-4R
Batch GP22290: FA6621-2FR, FA6621-4FR
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(a) Spike recovery indicates possible matrix interference.

MATRIX SPIKE DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: FA6621R
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MSD Result	RPD	QC Limit
Phosphate, Ortho	GP22290/GN57264	FA6621-2FR	mg/l	0.51	1.50	2.00	2.1	26%
Phosphorus, Total	GP22232/GN57130	FA6957-1	mg/l	1730	3000	1790	1.2	22%

Associated Samples:
Batch GP22232: FA6621-2R, FA6621-4R
Batch GP22290: FA6621-2FR, FA6621-4FR
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits

Southeast ACCUTEST LABORATORIES

08/06/13

Technical Report for

WSP Environment & Energy

Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID 36785.01

Accutest Job Number: FA6777

Sampling Date: 07/25/13

Report to:

WSP Environment & Energy
205 West Park Street
Jackson, MO 63755
tim.huff@wspgroup.com

ATTN: Tim Huff

Total number of pages in report: **59**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Harry Behzadi, Ph.D.
Laboratory Director

Client Service contact: Andrea Colby 407-425-6700

Certifications: FL (E83510), LA (03051), KS (E-10327), IA (366), IL (200063), NC (573), NJ (FL002), SC (96038001) DoD ELAP (L-A-B L2229), CA (04226CA), TX (T104704404), AK, AR, GA, KY, MA, NV, OK, UT, VA, WA, WI

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Accutest Laboratories is the sole authority for authorizing edits or modifications to this document. Unauthorized modification of this report is strictly prohibited.

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Sample Summary

WSP Environment & Energy

Job No: FA6777

Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID
Project No: 36785.01

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA6777-1	07/25/13	09:15	TP	07/26/13	AQ	Ground Water	A-34-022
FA6777-1F	07/25/13	09:15	TP	07/26/13	AQ	Groundwater Filtered	A-34-022

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: WSP Environment & Energy **Job:** FA6777

Site: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID **Report Date:** 8/6/2013 11:51:55 AM

1 Sample was collected on 07/25/2013 and was received at Accutest SE on 07/26/2013 properly preserved, at 2.8 Deg. C and intact. The Sample received an Accutest job number of FA6777. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Metals By Method SW846 6010C

Matrix: AQ **Batch ID:** MP25594

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA6772-1DUP, FA6772-1MS, FA6772-1MSD, FA6772-1PS, FA6772-1SDL were used as the QC samples for metals.

Matrix Spike Recovery(s) for Calcium and Sodium are outside control limits. Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

Matrix Spike Duplicate Recovery(s) for Calcium, Iron, Sodium are outside control limits. Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

RPD(s) for Duplicate for Arsenic are outside control limits for sample MP25594-D1. RPD acceptable due to low duplicate and sample concentrations.

RPD(s) for Serial Dilution for Arsenic, Chromium, Potassium, Sodium are outside control limits for sample MP25594-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

FA6777-1 for Calcium: Elevated reporting limit(s) due to matrix interference.

MP25594-SD1 for Potassium: Serial dilution indicates possible matrix interference.

FA6777-1 for Chromium: Elevated reporting limit(s) due to matrix interference.

MP25594-PS1 for Calcium: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP25594-PS1 for Sodium: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP25594-SD1 for Sodium: Serial dilution indicates possible matrix interference.

FA6777-1 for Antimony: Elevated reporting limit(s) due to matrix interference.

FA6777-1 for Arsenic: Elevated reporting limit(s) due to matrix interference.

FA6777-1 for Cadmium: Elevated reporting limit(s) due to matrix interference.

FA6777-1 for Selenium: Elevated reporting limit(s) due to matrix interference.

Wet Chemistry By Method EPA 120.1

Matrix: AQ **Batch ID:** GN56988

All method blanks for this batch meet method specific criteria.

Sample(s) FA6777-1DUP was used as the QC sample for Specific Conductivity.
The following sample was run outside of holding time for method EPA 120.1: FA6777-1.

Wet Chemistry By Method EPA 300/SW846 9056A

Matrix: AQ **Batch ID:** GP22182

All samples were prepped within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA6773-3MS, FA6773-3MSD were used as the QC samples for Nitrogen, Nitrate and Sulfate.

FA6777-1 for Nitrogen, Nitrate: Dilution required due to matrix interference.

Wet Chemistry By Method EPA 300/SW846 9056A

Matrix: AQ **Batch ID:** GP22223

All samples were prepped within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA6662-1MSD, FA6662-1MS were used as the QC samples for Fluoride.

Matrix Spike Recovery(s) for Fluoride are outside control limits. Spike recovery indicates possible matrix interference. For method performance in a clean matrix, refer to Blank Spike.

Wet Chemistry By Method EPA 365.3

Matrix: AQ **Batch ID:** GP22176

All samples were prepped within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA6777-1FMSD, FA6777-1FMS were used as the QC samples for Phosphate, Ortho.

Matrix Spike Recovery(s) for Phosphate, Ortho are outside control limits. Spike recovery indicates possible matrix interference. For method performance in a clean matrix, refer to Blank Spike.

Matrix: AQ **Batch ID:** GP22211

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA6763-8MS, FA6763-8MSD were used as the QC samples for Phosphorus, Total.

Wet Chemistry By Method SM 4500H B/SW 9040C

Matrix: AQ **Batch ID:** GN56985

Sample(s) FA6770-1DUP was used as the QC sample for pH.

FA6777-1 for pH: Field analysis required. Received out of hold time and analyzed by request.

Wet Chemistry By Method SM19 2320B

Matrix: AQ **Batch ID:** GN57026

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA6730-1DUP was used as the QC sample for Alkalinity, Total as CaCO3.

Wet Chemistry By Method SM19 2540C

Matrix: AQ **Batch ID:** GN57076

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA6851-3DUP was used as the QC sample for Solids, Total Dissolved.

Accutest Laboratories Southeast (ALSE) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALSE and as stated on the COC. ALSE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the ALSE Quality Manual except as noted above. This report is to be used in its entirety. ALSE is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

_____

Kim Benham, Client Services (signature on file)

Date: August 6, 2013

Summary of Hits

Job Number: FA6777
Account: WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID
Collected: 07/25/13

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA6777-1	**A-34-022**					
Aluminum		796	2.0	0.15	mg/l	SW846 6010C
Arsenic [a]		0.126	0.10	0.025	mg/l	SW846 6010C
Cadmium [a]		1.44	0.050	0.0050	mg/l	SW846 6010C
Calcium [a]		453	10	0.50	mg/l	SW846 6010C
Chromium [a]		1.21	0.10	0.020	mg/l	SW846 6010C
Iron		827	3.0	0.29	mg/l	SW846 6010C
Magnesium		544	50	0.74	mg/l	SW846 6010C
Potassium		235	100	2.0	mg/l	SW846 6010C
Selenium [a]		0.0212 J	0.10	0.020	mg/l	SW846 6010C
Sodium		390	100	5.0	mg/l	SW846 6010C
Chloride		275	200	80	mg/l	EPA 300/SW846 9056A
Fluoride		4190	400	120	mg/l	EPA 300/SW846 9056A
Nitrogen, Nitrate [b]		7.9 J	10	5.0	mg/l	EPA 300/SW846 9056A
Phosphorus, Total		1630	500	140	mg/l	EPA 365.3
Solids, Total Dissolved		16200	1000	100	mg/l	SM19 2540C
Specific Conductivity [c]		12800	1.0	1.0	umhos/cm	EPA 120.1
Sulfate		9190	200	60	mg/l	EPA 300/SW846 9056A
pH [d]		2.39			su	SM 4500H B/SW 9040C
FA6777-1F	**A-34-022**					
Phosphate, Ortho		1550	500	95	mg/l	EPA 365.3

(a) Elevated reporting limit(s) due to matrix interference.
(b) Dilution required due to matrix interference.
(c) Sample received outside the holding time.
(d) Field analysis required. Received out of hold time and analyzed by request.

Southeast ACCUTEST LABORATORIES

4

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: A-34-022
Lab Sample ID: FA6777-1
Matrix: AQ - Ground Water
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

Date Sampled: 07/25/13
Date Received: 07/26/13
Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	796	2.0	0.15	mg/l	10	08/01/13	08/02/13	LM	SW846 6010C [1]	SW846 3010A [2]
Antimony [a]	0.013 U	0.060	0.013	mg/l	10	08/01/13	08/02/13	LM	SW846 6010C [1]	SW846 3010A [2]
Arsenic [a]	0.126	0.10	0.025	mg/l	10	08/01/13	08/02/13	LM	SW846 6010C [1]	SW846 3010A [2]
Cadmium [a]	1.44	0.050	0.0050	mg/l	10	08/01/13	08/02/13	LM	SW846 6010C [1]	SW846 3010A [2]
Calcium [a]	453	10	0.50	mg/l	10	08/01/13	08/02/13	LM	SW846 6010C [1]	SW846 3010A [2]
Chromium [a]	1.21	0.10	0.020	mg/l	10	08/01/13	08/02/13	LM	SW846 6010C [1]	SW846 3010A [2]
Iron	827	3.0	0.29	mg/l	10	08/01/13	08/02/13	LM	SW846 6010C [1]	SW846 3010A [2]
Magnesium	544	50	0.74	mg/l	10	08/01/13	08/02/13	LM	SW846 6010C [1]	SW846 3010A [2]
Potassium	235	100	2.0	mg/l	10	08/01/13	08/02/13	LM	SW846 6010C [1]	SW846 3010A [2]
Selenium [a]	0.0212 J	0.10	0.020	mg/l	10	08/01/13	08/02/13	LM	SW846 6010C [1]	SW846 3010A [2]
Sodium	390	100	5.0	mg/l	10	08/01/13	08/02/13	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10945
(2) Prep QC Batch: MP25594

(a) Elevated reporting limit(s) due to matrix interference.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: A-34-022
Lab Sample ID: FA6777-1
Matrix: AQ - Ground Water
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

Date Sampled: 07/25/13
Date Received: 07/26/13
Percent Solids: n/a

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Alkalinity, Bicarbonate as CaC	5.0 U	5.0	5.0	mg/l	1	07/29/13 13:56	HH	SM18 4500CO2D
Alkalinity, Carbonate	5.0 U	5.0	5.0	mg/l	1	07/29/13 13:56	HH	SM18 4500CO2D
Alkalinity, Total as CaCO3	0.60 U	5.0	0.60	mg/l	1	07/29/13 13:56	HH	SM19 2320B
Chloride	275	200	80	mg/l	100	07/26/13 13:51	AC	EPA 300/SW846 9056A
Fluoride	4190	400	120	mg/l	2000	08/02/13 14:41	AA	EPA 300/SW846 9056A
Nitrogen, Nitrate [a]	7.9 J	10	5.0	mg/l	100	07/26/13 13:51	AC	EPA 300/SW846 9056A
Phosphorus, Total	1630	500	140	mg/l	5000	08/01/13 09:30	LE	EPA 365.3
Solids, Total Dissolved	16200	1000	100	mg/l	10	07/31/13 15:45	KC	SM19 2540C
Specific Conductivity [b]	12800	1.0	1.0	umhos/cm	1	07/26/13 13:00	HH	EPA 120.1
Sulfate	9190	200	60	mg/l	100	07/26/13 13:51	AC	EPA 300/SW846 9056A
pH [c]	2.39			su	1	07/26/13 13:10	HH	SM 4500H B/SW 9040C

(a) Dilution required due to matrix interference.
(b) Sample received outside the holding time.
(c) Field analysis required. Received out of hold time and analyzed by request.

RL = Reporting Limit
MDL = Method Detection Limit
U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	A-34-022		
Lab Sample ID:	FA6777-1F	**Date Sampled:**	07/25/13
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/26/13
		Percent Solids:	n/a
Project:	Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Phosphate, Ortho	1550	500	95	mg/l	5000	07/26/13 12:25	LE	EPA 365.3

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Southeast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

Accutest Laboratories Southeast
Chain of Custody

ACCUTEST LABORATORIES

4405 Vineland Road, Suite C-15 Orlando, Fl 32811
TEL. 407-425-6700 • FAX: 407-425-0707
www.accutest.com

Accutest JOB # FA6777 PAGE 1 OF 1

Accutest Quote # | SKIFF#

Client / Reporting Information

Company Name: WSP ENV + ENG
Address: 205 W. Park St
City: Jackson State: MO Zip: 63755
Project Contact: Tim Huff E-mail: Tim.Huff@wspgroup.com
Phone#: 571-217-6759
Sampler(s) Name(s) (Printed): Tyson Pattie

Project Information

Project Name: AGRIUM
Street:
City: State:
Project #:
Fax #:
Client Purchase Order #:

Analytical Information

SEE ATTACHED

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL - Sludge
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe

Accutest Sample #	Field ID / Point of Collection	DATE	TIME	SAMPLED BY	MATRIX	TOTAL # OF BOTTLES	OTHER	NONE	HCl	NaOH	HNO3	H2SO4	NaOH+ZnAc	DI WATER	MEOH	SEE ATTACHED	LAB USE ONLY
1	A-34-022	072513	0915	TRP	GW	4		X			X	X				X	

TURNAROUND TIME (Business Days)

Approved By: / Rush Code

- [x] 10 Days Standard
- [ ] 7 Day RUSH
- [ ] 5 Day RUSH
- [ ] 3 Day EMERGENCY
- [ ] 2 Day EMERGENCY
- [ ] 1 Day EMERGENCY
- [ ] OTHER

Emergency or Rush T/A Data Available VIA Email or Lablink

Data Deliverable Information

- [ ] COMMERCIAL "A" (RESULTS ONLY)
- [ ] COMMERCIAL "B" (RESULTS PLUS QC)
- [ ] REDT1 (EPA LEVEL 3)
- [ ] FULT1 (EPA LEVEL 4)
- [ ] EDD'S

Comments / Remarks

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished by:	Date Time:	Received By:
1 Tyson Pattie	072513 1400	2 FX	3 FX	7-26-13	4 J. Carroll (Alex) 09:13
Relinquished by: 5	Date Time:	Received By: 6	Relinquished by: 7	Date Time:	Received By: 8

Lab Use Only: Custody Seal in Place: Y N Temp Blank Provided: Y N Preserved where Applicable: Y N Total # of Coolers: 1 Cooler Temperature (s) Celsius: 2-8

5.1

5

FA6777: Chain of Custody
Page 1 of 3

O-Phos - Field Filtered

Note: A-34-022 High Phosphate

Analyte List #2 (groundwater samples and groundwater sampling equipment blanks)

- total dissolved solids (TDS)
- Total metals - aluminum, antimony, arsenic, cadmium, calcium, chromium, iron, magnesium, potassium, selenium, and sodium
- chloride, fluoride, nitrate as N, and sulfate
- pH
- total phosphorous
- dissolved orthophosphate
- bicarbonate and carbonate alkalinity as CaCO3
- specific conductance

NOTE – If turbidity at the time of sampling is greater than 50 NTU, collect dissolved metals sample and submit to laboratory ON HOLD for the same analyte list as the total metals sample.

FA6777: Chain of Custody
Page 2 of 3

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: FA6777 CLIENT: WSP ENV PROJECT: AGRIUM

DATE/TIME RECEIVED: 7-26-13 0915 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 1

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 8017 3246 6887

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET
- [ ] WET ICE PRESENT

TRIP BLANK INFORMATION

- [ ] TRIP BLANK PROVIDED
- [X] TRIP BLANK NOT PROVIDED
- [X] TRIP BLANK NOT ON COC
- [ ] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [ ] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM_____ 5-GRAM_____

NUMBER OF 5035 FIELD KITS ? _____

NUMBER OF LAB FILTERED METALS ? _____

TEMPERATURE INFORMATION

- [ ] IR THERM ID 3 CORR. FACTOR +0.4
- [ ] OBSERVED TEMPS: 2.4
- [ ] CORRECTED TEMPS: 2.8

SAMPLE INFORMATION

- [ ] SAMPLE LABELS PRESENT ON ALL BOTTLES
- [ ] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] 5035 FIELD KIT FROZEN WITHIN 48 HOUR'S
- [ ] RESIDUAL CHLORINE PRESENT

{APPICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

SUMMARY OF COMMENTS:

TECHNICIAN SIGNATURE/DATE 7-26-13 REVIEWER SIGNATURE/DATE 07/26/13

NF 12/10

receipt confirmation 122910.xls

5.1

5

FA6777: Chain of Custody

Page 3 of 3

Southeast ACCUTEST LABORATORIES

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Instrument Runlogs
- Initial and Continuing Calibration Blanks
- Initial and Continuing Calibration Checks
- High and Low Check Standards
- Interfering Element Check Standards
- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA6777
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB080113M1.ICP Date Analyzed: 08/01/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10939
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
07:57	MA10939-STD1	1		STDA
08:01	MA10939-STD2	1		STDB
08:05	MA10939-STD3	1		STDC
08:09	MA10939-STD4	1		STDD
08:13	MA10939-HSTD1	1		
08:20	MA10939-ICV1	1		
08:26	MA10939-ICB1	1		
08:29	MA10939-CRIA1	1		
08:37	MA10939-ICSA1	1		
08:44	MA10939-ICSAB1	1		
08:50	MA10939-CCV1	1		
08:56	MA10939-CCB1	1		
09:01	ZZZZZZ	1		
09:05	ZZZZZZ	1		
09:09	ZZZZZZ	1		
09:14	ZZZZZZ	1		
09:18	MP25589-MB1	1		
09:22	MP25589-B1	1		
09:26	FA6740-1L	1		(sample used for QC only; not part of login FA6777)
09:31	MP25589-D1	1		
09:35	MP25589-SD1	5		
09:39	MP25589-S1	1		
09:44	MA10939-CCV2	1		
09:48	MA10939-CCB2	1		
09:52	MP25589-S2	1		
09:56	ZZZZZZ	1		
10:00	ZZZZZZ	1		
10:05	ZZZZZZ	1		
10:09	ZZZZZZ	1		
10:14	ZZZZZZ	1		
10:18	ZZZZZZ	1		
10:22	ZZZZZZ	1		
10:27	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA6777
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB080113M1.ICP Date Analyzed: 08/01/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10939
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
10:31	ZZZZZZ	1		
10:36	MA10939-CCV3	1		
10:40	MA10939-CCB3	1		
10:44	ZZZZZZ	1		
10:48	ZZZZZZ	1		
10:53	MP25589-D2	1		
10:57	MP25589-MB2	1		
11:02	MP25589-B2	1		
11:06	MP25590-MB1	1		
11:10	MP25590-B1	1		
11:14	FA6887-1	1		(sample used for QC only; not part of login FA6777)
11:18	MP25590-D1	1		
11:22	MP25590-SD1	5		
11:27	MA10939-CCV4	1		
11:31	MA10939-CCB4	1		
11:35	MP25590-PS1	1		
11:39	MP25590-S1	1		
11:43	MP25590-S2	1		
11:47	ZZZZZZ	1		
11:51	ZZZZZZ	1		
11:56	ZZZZZZ	1		
12:00	ZZZZZZ	1		
12:04	ZZZZZZ	1		
12:08	ZZZZZZ	1		
12:12	ZZZZZZ	1		
12:17	MA10939-CCV5	1		
12:21	MA10939-CCB5	1		
12:25	ZZZZZZ	4		
12:47	MP25594-MB1	1		
12:51	MP25594-B1	1		
12:55	FA6772-1	1		(sample used for QC only; not part of login FA6777)
12:59	MP25594-D1	1		
13:04	MP25594-SD1	5		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA6777
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB080113M1.ICP Date Analyzed: 08/01/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10939
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

	Time	Sample Description	Dilution Factor	PS Recov	Comments
	13:08	MA10939-CCV6	1		
	13:12	MA10939-CCB6	1		
	13:17	MP25594-PS1	1		
	13:21	MP25594-S1	1		
	13:26	MP25594-S2	1		
---------->		Last reportable sample/prep for job FA6777			
	13:30	ZZZZZZ	1		
	13:35	ZZZZZZ	1		
	13:39	ZZZZZZ	1		
	13:44	ZZZZZZ	1		
	13:48	ZZZZZZ	1		
	13:53	ZZZZZZ	1		
	13:57	ZZZZZZ	1		
	14:02	MA10939-CCV7	1		
	14:06	MA10939-CCB7	1		
	14:10	ZZZZZZ	1		
	14:14	ZZZZZZ	1		
	14:18	ZZZZZZ	1		
	14:23	ZZZZZZ	1		
	14:32	ZZZZZZ	1		
	14:36	ZZZZZZ	1		
	14:40	ZZZZZZ	1		
	14:44	ZZZZZZ	1		
	14:49	ZZZZZZ	1		
	14:53	MA10939-CCV8	1		
	14:57	MA10939-CCB8	1		
	15:01	MP25592-MB1	1		
	15:06	MP25592-B1	1		
	15:10	FA6669-1	1		(sample used for QC only; not part of login FA6777)
	15:14	MP25592-D1	1		
	15:19	MP25592-SD1	5		
	15:23	MP25592-PS1	1		
	15:28	MP25592-S1	1		
	15:32	MP25592-S2	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA6777
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB080113M1.ICP Date Analyzed: 08/01/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10939
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
15:37	ZZZZZZ	1		
15:41	ZZZZZZ	1		
15:46	MA10939-CCV9	1		
15:50	MA10939-CCB9	1		
15:54	ZZZZZZ	1		
15:59	ZZZZZZ	1		
16:03	ZZZZZZ	1		
16:08	ZZZZZZ	1		
16:13	ZZZZZZ	1		
16:17	ZZZZZZ	1		
16:22	ZZZZZZ	1		
16:26	ZZZZZZ	1		
16:31	ZZZZZZ	1		
16:36	ZZZZZZ	1		
16:40	MA10939-CCV10	1		
16:45	MA10939-CCB10	1		
16:49	ZZZZZZ	1		
16:53	ZZZZZZ	1		
16:58	ZZZZZZ	1		
17:02	ZZZZZZ	1		
17:07	ZZZZZZ	1		
17:12	ZZZZZZ	1		
17:16	MA10939-CRIA2	1		
17:21	MA10939-ICSA2	1		
17:25	MA10939-ICSAB2	1		
17:30	MA10939-CCV11	1		
17:34	MA10939-CCB11	1		

----------> Last reportable CCB for job FA6777
Refer to raw data for calibration curve and standards.

INTERNAL STANDARD SUMMARY

Login Number: FA6777
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB080113M1.ICP Date Analyzed: 08/01/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10939
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
07:57	MA10939-STD1	3941	27838	7717	1788
08:01	MA10939-STD2	3850	26977	7721	1661
08:05	MA10939-STD3	3708	25984	7650	1484
08:09	MA10939-STD4	3581	25357	7595	1340
08:13	MA10939-HSTD1	3585	25262	7536	1334
08:20	MA10939-ICV1	3710	26114	7605	1472
08:26	MA10939-ICB1	3927 R	27641 R	7642 R	1756 R
08:29	MA10939-CRIA1	3862	27043	7679	1686
08:37	MA10939-ICSA1	3330	22856	7299	1281
08:44	MA10939-ICSAB1	3347	23179	7370	1264
08:50	MA10939-CCV1	3706	25907	7559	1460
08:56	MA10939-CCB1	3913	27445	7655	1748
09:01	ZZZZZZ	3361	23829	7687	1113
09:05	ZZZZZZ	3883	27496	7707	1685
09:09	ZZZZZZ	3799	26495	8067	1444
09:14	ZZZZZZ	3845	27279	8462	1262
09:18	MP25589-MB1	3923	27857	7747	1759
09:22	MP25589-B1	3772	26442	7675	1563
09:26	FA6740-1L	3702	25867	7659	1539
09:31	MP25589-D1	3709	26039	7651	1546
09:35	MP25589-SD1	3803	26717	7698	1650
09:39	MP25589-S1	3648	25643	7623	1456
09:44	MA10939-CCV2	3675	25679	7542	1448
09:48	MA10939-CCB2	3869	27323	7665	1733
09:52	MP25589-S2	3664	25723	7632	1464
09:56	ZZZZZZ	3674	25592	7587	1533
10:00	ZZZZZZ	3745	26042	7719	1540
10:05	ZZZZZZ	3663	25637	7595	1523
10:09	ZZZZZZ	3681	25860	7599	1535
10:14	ZZZZZZ	3685	25745	7638	1539
10:18	ZZZZZZ	3669	25661	7607	1530
10:22	ZZZZZZ	3662	25579	7588	1521
10:27	ZZZZZZ	3712	25873	7659	1542

INTERNAL STANDARD SUMMARY

Login Number: FA6777
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB080113M1.ICP Date Analyzed: 08/01/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10939
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4	
10:31	ZZZZZZ	3736	26037	7682	1551	
10:36	MA10939-CCV3	3659	25704	7540	1443	
10:40	MA10939-CCB3	3880	27392	7621	1739	
10:44	ZZZZZZ	3693	25818	7607	1546	
10:48	ZZZZZZ	3671	25714	7572	1526	
10:53	MP25589-D2	3689	25719	7597	1538	
10:57	MP25589-MB2	3688	25706	7567	1538	
11:02	MP25589-B2	3656	25515	7594	1461	
11:06	MP25590-MB1	3929	27244	7718	1784	
11:10	MP25590-B1	3814	26229	7669	1575	
11:14	FA6887-1	3862	27007	7792	1714	
11:18	MP25590-D1	3877	26920	7767	1720	
11:22	MP25590-SD1	3845	26997	7584	1714	
11:27	MA10939-CCV4	3651	25533	7499	1437	
11:31	MA10939-CCB4	3862	27298	7584	1728	
11:35	MP25590-PS1	3840	26561	7764	1655	
11:39	MP25590-S1	3768	26158	7652	1548	
11:43	MP25590-S2	3761	26129	7670	1546	
11:47	ZZZZZZ	3868	26981	7782	1716	
11:51	ZZZZZZ	3867	27013	7711	1711	
11:56	ZZZZZZ	4021	27870	7990	1698	
12:00	ZZZZZZ	3847	26800	7789	1687	
12:04	ZZZZZZ	3876	27013	7818	1690	
12:08	ZZZZZZ	3871	27047	7808	1725	
12:12	ZZZZZZ	3915	27278	7860	1728	
12:17	MA10939-CCV5	3625	25639	7544	1444	
12:21	MA10939-CCB5	3846	27215	7615	1737	
12:25	ZZZZZZ	4555	31900	9241	1618	
12:47	MP25594-MB1	3845	27411	7758	1745	
12:51	MP25594-B1	3708	26190	7641	1554	
12:55	FA6772-1	2916	20014	6804	1042	!
12:59	MP25594-D1	2941	20308	6872	1050	!
13:04	MP25594-SD1	3395	23410	7354	1308	

INTERNAL STANDARD SUMMARY

Login Number: FA6777
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB080113M1.ICP Date Analyzed: 08/01/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10939
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
13:08	MA10939-CCV6	3669	25699	7594	1455
13:12	MA10939-CCB6	3893	27647	7751	1750
13:17	MP25594-PS1	2965	20473	6912	1042 !
13:21	MP25594-S1	2995	20741	6912	1031 !
13:26	MP25594-S2	2975	20609	6959	1027 !
13:30	ZZZZZZ	2936	20265	6888	1040 !
13:35	ZZZZZZ	3616	25937	7649	1535
13:39	ZZZZZZ	3908	27927	7827	1763
13:44	ZZZZZZ	3903	27952	7819	1758
13:48	ZZZZZZ	4276	30356	9570	1269
13:53	ZZZZZZ	3490	24722	7562	1376
13:57	ZZZZZZ	3694	26343	7890	1442
14:02	MA10939-CCV7	3665	25892	7624	1458
14:06	MA10939-CCB7	3873	27689	7739	1743
14:10	ZZZZZZ	3914	27545	7903	1614
14:14	ZZZZZZ	3663	26507	7803	1576
14:18	ZZZZZZ	3672	26396	7759	1568
14:23	ZZZZZZ	3608	25950	7679	1521
14:32	ZZZZZZ	3771	27084	7775	1656
14:36	ZZZZZZ	3668	26504	7724	1591
14:40	ZZZZZZ	3914	28104	8117	1662
14:44	ZZZZZZ	3798	27372	7792	1679
14:49	ZZZZZZ	3828	27417	7852	1688
14:53	MA10939-CCV8	3687	26123	7655	1467
14:57	MA10939-CCB8	3870	27652	7740	1745
15:01	MP25592-MB1	3866	27914	7831	1750
15:06	MP25592-B1	3765	26969	7802	1574
15:10	FA6669-1	3149	22682	7171	1227
15:14	MP25592-D1	3146	22758	7110	1227
15:19	MP25592-SD1	3560	25334	7471	1463
15:23	MP25592-PS1	3172	22848	7218	1231
15:28	MP25592-S1	3164	22972	7225	1199
15:32	MP25592-S2	3103	22880	7136	1179

INTERNAL STANDARD SUMMARY

Login Number: FA6777
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB080113M1.ICP Date Analyzed: 08/01/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10939
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
15:37	ZZZZZZ	2989	21682	6939	1154
15:41	ZZZZZZ	2993	21443	6994	1126
15:46	MA10939-CCV9	3655	26244	7633	1462
15:50	MA10939-CCB9	3867	27845	7742	1748
15:54	ZZZZZZ	2980	21184	6987	1105
15:59	ZZZZZZ	3026	21751	7082	1158
16:03	ZZZZZZ	3115	22384	7138	1194
16:08	ZZZZZZ	2806	19838	6794	985
16:13	ZZZZZZ	3244	23013	7507	1254
16:17	ZZZZZZ	3277	23275	7507	1248
16:22	ZZZZZZ	3309	23969	7399	1295
16:26	ZZZZZZ	3341	24407	7484	1353
16:31	ZZZZZZ	3347	24041	7389	1299
16:36	ZZZZZZ	3364	24460	7472	1370
16:40	MA10939-CCV10	3640	26412	7729	1470
16:45	MA10939-CCB10	3878	28276	7762	1764
16:49	ZZZZZZ	2563	18095	6484	768 !
16:53	ZZZZZZ	3073	24372	8365	1228
16:58	ZZZZZZ	3252	25636	8639	1361
17:02	ZZZZZZ	2402	18192	7283	453 !
17:07	ZZZZZZ	3155	24573	8411	1296
17:12	ZZZZZZ	2889	21644	7796	1047
17:16	MA10939-CRIA2	3783	29084	8869	1718
17:21	MA10939-ICSA2	3328	24582	8461	1317
17:25	MA10939-ICSAB2	3342	25099	8723	1324
17:30	MA10939-CCV11	3679	28260	8938	1526
17:34	MA10939-CCB11	3914	30086	8999	1827

R = Reference for ISTD limits. ! = Outside limits.

LEGEND:

Istd#	Parameter	Limits
Istd#1	Yttrium (2243)	60-125 %
Istd#2	Yttrium (3600)	60-125 %
Istd#3	Yttrium (3710)	60-125 %
Istd#4	Indium	60-125 %

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: FA6777
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB080113M1.ICP Date Analyzed: 08/01/13 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA10939 Units: ug/l

Time: / Sample ID:			08:26 ICB1		08:56 CCB1		09:48 CCB2		10:40 CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	15	3.0	<200	5.9	<200	2.2	<200	-0.50	<200
Antimony	6.0	1.3	0.30	<6.0	-0.20	<6.0	0.20	<6.0	-0.50	<6.0
Arsenic	10	1.6	1.0	<10	0.40	<10	0.90	<10	0.10	<10
Barium	200	1	anr							
Beryllium	4.0	.5	anr							
Cadmium	5.0	.5	0.0	<5.0	0.10	<5.0	0.10	<5.0	0.10	<5.0
Calcium	1000	50	2.2	<1000	12.0	<1000	9.9	<1000	6.7	<1000
Chromium	10	1.8	-0.10	<10	0.0	<10	0.20	<10	0.10	<10
Cobalt	50	.5	anr							
Copper	25	1	anr							
Iron	300	29	1.0	<300	9.1	<300	11.4	<300	8.5	<300
Lead	5.0	1.1	anr							
Magnesium	5000	74	-0.70	<5000	10.6	<5000	0.90	<5000	6.7	<5000
Manganese	15	.7	anr							
Molybdenum	50	.6	anr							
Nickel	40	.5	anr							
Potassium	10000	200	15.4	<10000	2.4	<10000	34.6	<10000	40.4	<10000
Selenium	10	2	-0.30	<10	0.10	<10	-0.30	<10	-0.40	<10
Silver	10	.5	anr							
Sodium	10000	500	7.4	<10000	16.3	<10000	70.0	<10000	86.4	<10000
Strontium	10	.5	anr							
Thallium	10	1.3	anr							
Tin	50	.7	anr							
Titanium	10	.9	anr							
Vanadium	50	.5	anr							
Zinc	20	3	anr							

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: FA6777
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB080113M1.ICP Date Analyzed: 08/01/13 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA10939 Units: ug/l

Time: / Sample ID:			11:31 CCB4		12:21 CCB5		13:12 CCB6		14:06 CCB7	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	15	2.1	<200	-2.6	<200	0.30	<200	5.7	<200
Antimony	6.0	1.3	-0.30	<6.0	-0.50	<6.0	-0.70	<6.0	-0.90	<6.0
Arsenic	10	1.6	1.5	<10	0.80	<10	0.70	<10	0.20	<10
Barium	200	1	anr							
Beryllium	4.0	.5	anr							
Cadmium	5.0	.5	0.0	<5.0	0.0	<5.0	0.0	<5.0	0.20	<5.0
Calcium	1000	50	7.3	<1000	6.1	<1000	7.8	<1000	38.7	<1000
Chromium	10	1.8	0.20	<10	0.10	<10	-0.10	<10	0.20	<10
Cobalt	50	.5	anr							
Copper	25	1	anr							
Iron	300	29	10.7	<300	10.9	<300	7.7	<300	15.3	<300
Lead	5.0	1.1	anr							
Magnesium	5000	74	0.10	<5000	5.5	<5000	-9.1	<5000	-1.5	<5000
Manganese	15	.7	anr							
Molybdenum	50	.6	anr							
Nickel	40	.5	anr							
Potassium	10000	200	12.2	<10000	21.7	<10000	98.4	<10000	474	<10000
Selenium	10	2	-0.10	<10	0.50	<10	-1.1	<10	0.30	<10
Silver	10	.5	anr							
Sodium	10000	500	54.2	<10000	41.1	<10000	498	<10000	401	<10000
Strontium	10	.5								
Thallium	10	1.3	anr							
Tin	50	.7								
Titanium	10	.9								
Vanadium	50	.5	anr							
Zinc	20	3	anr							

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: FA6777
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB080113M1.ICP Date Analyzed: 08/01/13 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA10939 Units: ug/l

Time: / Sample ID:			14:57 CCB8		15:50 CCB9		16:45 CCB10		17:34 CCB11	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	15	6.7	<200	4.5	<200	6.6	<200	8.5	<200
Antimony	6.0	1.3	-0.30	<6.0	-0.30	<6.0	-0.20	<6.0	-0.90	<6.0
Arsenic	10	1.6	0.90	<10	1.3	<10	0.80	<10	-0.30	<10
Barium	200	1	anr							
Beryllium	4.0	.5	anr							
Cadmium	5.0	.5	0.20	<5.0	0.10	<5.0	0.10	<5.0	0.10	<5.0
Calcium	1000	50	18.6	<1000	27.5	<1000	24.7	<1000	16.5	<1000
Chromium	10	1.8	0.30	<10	0.30	<10	0.20	<10	0.10	<10
Cobalt	50	.5	anr							
Copper	25	1	anr							
Iron	300	29	15.9	<300	15.2	<300	13.1	<300	14.5	<300
Lead	5.0	1.1	anr							
Magnesium	5000	74	1.9	<5000	18.7	<5000	16.3	<5000	7.7	<5000
Manganese	15	.7	anr							
Molybdenum	50	.6	anr							
Nickel	40	.5	anr							
Potassium	10000	200	164	<10000	180	<10000	134	<10000	179	<10000
Selenium	10	2	1.7	<10	0.50	<10	1.1	<10	1.2	<10
Silver	10	.5	anr							
Sodium	10000	500	207	<10000	557	<10000	429	<10000	414	<10000
Strontium	10	.5								
Thallium	10	1.3	anr							
Tin	50	.7								
Titanium	10	.9								
Vanadium	50	.5	anr							
Zinc	20	3	anr							

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA6777
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB080113M1.ICP Date Analyzed: 08/01/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA10939 Units: ug/l

Time:		08:20			08:50			09:44	
Sample ID:	ICV	ICV1		CCV	CCV1		CCV	CCV2	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	39900	99.8	40000	40200	100.5	40000	40200	100.5
Antimony	2000	1980	99.0	2000	1950	97.5	2000	1950	97.5
Arsenic	2000	1980	99.0	2000	1960	98.0	2000	1960	98.0
Barium	anr								
Beryllium	anr								
Cadmium	2000	2010	100.5	2000	2010	100.5	2000	2010	100.5
Calcium	40000	40900	102.3	40000	40600	101.5	40000	40400	101.0
Chromium	2000	2020	101.0	2000	2010	100.5	2000	2020	101.0
Cobalt	anr								
Copper	anr								
Iron	40000	41300	103.3	40000	41300	103.3	40000	41300	103.3
Lead	anr								
Magnesium	40000	39200	98.0	40000	40000	100.0	40000	39700	99.3
Manganese	anr								
Molybdenum	anr								
Nickel	anr								
Potassium	40000	40000	100.0	40000	39400	98.5	40000	39400	98.5
Selenium	2000	1980	99.0	2000	1960	98.0	2000	1960	98.0
Silver	anr								
Sodium	40000	40700	101.8	40000	40300	100.8	40000	40500	101.3
Strontium	anr								
Thallium	anr								
Tin	anr								
Titanium	anr								
Vanadium	anr								
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA6777
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB080113M1.ICP Date Analyzed: 08/01/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA10939 Units: ug/l

Time:		10:36			11:27			12:17	
Sample ID:	CCV	CCV3		CCV	CCV4		CCV	CCV5	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	40200	100.5	40000	40600	101.5	40000	40200	100.5
Antimony	2000	1960	98.0	2000	1980	99.0	2000	2000	100.0
Arsenic	2000	1970	98.5	2000	1990	99.5	2000	2000	100.0
Barium	anr								
Beryllium	anr								
Cadmium	2000	2020	101.0	2000	2040	102.0	2000	2030	101.5
Calcium	40000	40400	101.0	40000	40800	102.0	40000	40300	100.8
Chromium	2000	2010	100.5	2000	2030	101.5	2000	2000	100.0
Cobalt	anr								
Copper	anr								
Iron	40000	41300	103.3	40000	41800	104.5	40000	40800	102.0
Lead	anr								
Magnesium	40000	39800	99.5	40000	40200	100.5	40000	40100	100.3
Manganese	anr								
Molybdenum	anr								
Nickel	anr								
Potassium	40000	39600	99.0	40000	39800	99.5	40000	39900	99.8
Selenium	2000	1980	99.0	2000	1990	99.5	2000	2010	100.5
Silver	anr								
Sodium	40000	40500	101.3	40000	40800	102.0	40000	40400	101.0
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium	anr								
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA6777
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB080113M1.ICP Date Analyzed: 08/01/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA10939 Units: ug/l

Time:		13:08			14:02			14:53	
Sample ID:	CCV	CCV6		CCV	CCV7		CCV	CCV8	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	40500	101.3	40000	40200	100.5	40000	39700	99.3
Antimony	2000	2000	100.0	2000	2000	100.0	2000	2010	100.5
Arsenic	2000	1990	99.5	2000	1990	99.5	2000	1990	99.5
Barium	anr								
Beryllium	anr								
Cadmium	2000	2030	101.5	2000	2020	101.0	2000	2000	100.0
Calcium	40000	40500	101.3	40000	40000	100.0	40000	39600	99.0
Chromium	2000	2030	101.5	2000	2000	100.0	2000	1970	98.5
Cobalt	anr								
Copper	anr								
Iron	40000	41100	102.8	40000	40700	101.8	40000	40100	100.3
Lead	anr								
Magnesium	40000	40100	100.3	40000	39600	99.0	40000	39500	98.8
Manganese	anr								
Molybdenum	anr								
Nickel	anr								
Potassium	40000	40200	100.5	40000	40500	101.3	40000	39800	99.5
Selenium	2000	2000	100.0	2000	2000	100.0	2000	2000	100.0
Silver	anr								
Sodium	40000	41600	104.0	40000	41000	102.5	40000	40200	100.5
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium	anr								
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA6777
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB080113M1.ICP Date Analyzed: 08/01/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA10939 Units: ug/l

Time:		15:46			16:40			17:30	
Sample ID:	CCV	CCV9		CCV	CCV10		CCV	CCV11	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	39400	98.5	40000	39300	98.3	40000	39000	97.5
Antimony	2000	2030	101.5	2000	2080	104.0	2000	2150	107.5
Arsenic	2000	2010	100.5	2000	2040	102.0	2000	2060	103.0
Barium	anr								
Beryllium	anr								
Cadmium	2000	2000	100.0	2000	2010	100.5	2000	1920	96.0
Calcium	40000	39200	98.0	40000	38800	97.0	40000	35600	89.0*(a)
Chromium	2000	1950	97.5	2000	1940	97.0	2000	1800	90.0
Cobalt	anr								
Copper	anr								
Iron	40000	39400	98.5	40000	38700	96.8	40000	36500	91.3
Lead	anr								
Magnesium	40000	39300	98.3	40000	39000	97.5	40000	34700	86.8*(b)
Manganese	anr								
Molybdenum	anr								
Nickel	anr								
Potassium	40000	40000	100.0	40000	40600	101.5	40000	40900	102.3
Selenium	2000	2020	101.0	2000	2060	103.0	2000	2110	105.5
Silver	anr								
Sodium	40000	40900	102.3	40000	40400	101.0	40000	40800	102.0
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium	anr								
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested
(a) No samples for Ca_ reported in the area bracketed by this QC.
(b) No samples for Mg_ reported in the area bracketed by this QC.

HIGH STANDARD CHECK SUMMARY

Login Number: FA6777
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB080113M1.ICP Date Analyzed: 08/01/13 Methods: SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA10939 Units: ug/l

Time:		08:13	
Sample ID:	HSTD	HSTD1	
Metal	True	Results	% Rec
Aluminum	80000	80000	100.0
Antimony	4000	3980	99.5
Arsenic	4000	3990	99.8
Barium	anr		
Beryllium	anr		
Cadmium	4000	3970	99.3
Calcium	80000	79600	99.5
Chromium	4000	3990	99.8
Cobalt	anr		
Copper	anr		
Iron	80000	80300	100.4
Lead	anr		
Magnesium	80000	79600	99.5
Manganese	anr		
Molybdenum	anr		
Nickel	anr		
Potassium	80000	79900	99.9
Selenium	4000	3970	99.3
Silver	anr		
Sodium	80000	80300	100.4
Strontium	anr		
Thallium	anr		
Tin	anr		
Titanium	anr		
Vanadium	anr		
Zinc	anr		

(*) Outside of QC limits
(anr) Analyte not requested

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: FA6777
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB080113M1.ICP Date Analyzed: 08/01/13 Methods: SW846 6010C
QC Limits: CRI 70-130% CRIA 70-130% Run ID: MA10939 Units: ug/l

Time:			08:29		17:16	
Sample ID:	CRI	CRIA	CRIA1		CRIA2	
Metal	True	True	Results	% Rec	Results	% Rec
Aluminum	400	200	203	101.5	200	100.0
Antimony	10	5.0	4.1	82.0	3.8	76.0
Arsenic	20	10	11.1	111.0	11.0	110.0
Barium	400	200	anr			
Beryllium	10	5.0	anr			
Cadmium	10	5.0	5.2	104.0	5.0	100.0
Calcium	2000	1000	1050	105.0	956	95.6
Chromium	20	10	10.2	102.0	9.5	95.0
Cobalt	100	50	anr			
Copper	50	25	anr			
Iron	600	300	325	108.3	302	100.7
Lead	10	5.0	anr			
Magnesium	10000	5000	4960	99.2	4300	86.0
Manganese	30	15	anr			
Molybdenum	100	50	anr			
Nickel	80	40	anr			
Potassium	20000	10000	9670	96.7	10900	109.0
Selenium	20	10	9.0	90.0	9.3	93.0
Silver	20	10	anr			
Sodium	20000	10000	9980	99.8	12500	125.0
Strontium	20	10	anr			
Thallium	20	10	anr			
Tin	100	50	anr			
Titanium	20	10	anr			
Vanadium	100	50	anr			
Zinc	40	20	anr			

(*) Outside of QC limits
(anr) Analyte not requested

INTERFERING ELEMENT CHECK STANDARDS SUMMARY
Part 1 - ICSA and ICSAB Standards

Login Number: FA6777
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB080113M1.ICP Date Analyzed: 08/01/13 Methods: SW846 6010C
QC Limits: 80 to 120 % Recovery Run ID: MA10939 Units: ug/l

Time:			08:37		08:44		17:21		17:25	
Sample ID:	ICSA	ICSAB	ICSA1		ICSAB1		ICSA2		ICSAB2	
Metal	True	True	Results	% Rec	Results	% Rec	Results	% Rec	Results	% Rec
Aluminum	500000	500000	503000	100.6	492000	98.4	499000	99.8	481000	96.2
Antimony		1000	1.7		997	99.7	3.2		1080	108.0
Arsenic		1000	0.30		1010	101.0	-0.90		1050	105.0
Barium		500	0.30		513	102.6	0.40		523	104.6
Beryllium		500	-0.10		495	99.0	-0.10		453	90.6
Cadmium		1000	0.0		920	92.0	2.6		867	86.7
Calcium	500000	500000	472000	94.4	466000	93.2	416000	83.2	406000	81.2
Chromium		500	0.40		478	95.6	0.20		430	86.0
Cobalt		500	2.3		459	91.8	2.3		442	88.4
Copper		500	-0.10		519	103.8	0.90		547	109.4
Iron	200000	200000	187000	93.5	183000	91.5	169000	84.5	159000	80.0
Lead		1000	-0.70		928	92.8	-19* (a)		812	81.2
Magnesium	500000	500000	487000	97.4	481000	96.2	428000	85.6	417000	83.4
Manganese		500	0.60		486	97.2	0.70		450	90.0
Molybdenum		1000	-0.40		949	94.9	-0.50		921	92.1
Nickel		1000	1.0		890	89.0	1.0		880	88.0
Potassium			17.6		10.8		719		388	
Selenium		1000	-0.50		962	96.2	1.1		1020	102.0
Silver		1000	0.40		967	96.7	0.10		949	94.9
Sodium			85.3		85.8		1570		887	
Strontium		1000	12.2		1020	102.0	12.9		1010	101.0
Thallium		1000	0.40		936	93.6	-1.7		849	84.9
Tin		1000	-0.90		913	91.3	-2.1		874	87.4
Titanium		1000	-3.9		1010	101.0	-3.5		938	93.8
Vanadium		500	0.0		476	95.2	0.40		451	90.2
Zinc		1000	0.90		926	92.6	0.80		816	81.6

(*) Outside of QC limits
(anr) Analyte not requested
(a) Possible instrument baseline drift.

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA6777
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA080213M2.ICP Date Analyzed: 08/02/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10945
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
08:37	MA10945-STD1	1		STDA
08:41	MA10945-STD2	1		STDB
08:44	MA10945-STD3	1		STDC
08:48	MA10945-STD4	1		STDD
08:52	MA10945-HSTD1	1		
08:58	MA10945-ICV1	1		
09:06	MA10945-ICB1	1		
09:10	MA10945-CRIA1	1		
09:19	MA10945-ICSA1	1		
09:29	MA10945-ICSAB1	1		
09:37	MA10945-CCV1	1		
09:43	MA10945-CCB1	1		
09:48	ZZZZZZ	5		
09:53	FA6772-1	200		(sample used for QC only; not part of login FA6777)
09:57	MP25594-D1	200		
10:02	MP25594-S1	200		
10:06	MP25594-S2	200		
10:11	MP25594-PS1	200		
10:15	MP25594-SD1	1000		
10:19	ZZZZZZ	200		
10:24	FA6777-1	10		
---------->	Last reportable sample/prep for job FA6777			
10:33	MA10945-CCV2	1		
10:37	MA10945-CCB2	1		
12:07	MA10945-CCV3	1		
12:11	MA10945-CCB3	1		
12:54	ZZZZZZ	10		
12:58	ZZZZZZ	10		
13:03	MA10945-CCV4	1		
13:07	MA10945-CCB4	1		
13:12	MA10945-CRIA2	1		
13:16	MA10945-ICSA2	1		
13:20	MA10945-ICSAB2	1		
13:25	MA10945-CCV5	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA6777
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA080213M2.ICP Date Analyzed: 08/02/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10945
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
13:29	MA10945-CCB5	1		
---------->	Last reportable CCB for job FA6777			
	Refer to raw data for calibration curve and standards.			

INTERNAL STANDARD SUMMARY

Login Number: FA6777
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA080213M2.ICP Date Analyzed: 08/02/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10945
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
08:37	MA10945-STD1	4093	29708	5159	1812
08:41	MA10945-STD2	4061	29341	5199	1693
08:44	MA10945-STD3	3894	28319	5142	1534
08:48	MA10945-STD4	3734	27495	5099	1413
08:52	MA10945-HSTD1	3732	27544	5091	1408
08:58	MA10945-ICV1	3892	28193	5083	1532
09:06	MA10945-ICB1	4101 R	29790 R	5146 R	1806 R
09:10	MA10945-CRIA1	4063	29433	5198	1732
09:19	MA10945-ICSA1	3610	25761	4984	1322
09:29	MA10945-ICSAB1	3603	25884	4919	1306
09:37	MA10945-CCV1	3900	28575	5113	1527
09:43	MA10945-CCB1	4094	29919	5085	1794
09:48	ZZZZZZ	3943	28843	5196	1530
09:53	FA6772-1	4036	29212	5095	1711
09:57	MP25594-D1	4036	29256	5091	1713
10:02	MP25594-S1	4040	29236	5105	1714
10:06	MP25594-S2	4032	29300	5106	1709
10:11	MP25594-PS1	4027	29225	5124	1716
10:15	MP25594-SD1	4090	29683	5143	1769
10:19	ZZZZZZ	4034	29221	5078	1713
10:24	FA6777-1	4210	30341	5357	1573
10:33	MA10945-CCV2	3898	28475	5121	1521
10:37	MA10945-CCB2	4078	29770	5086	1791
12:07	MA10945-CCV3	3891	28563	4934	1513
12:11	MA10945-CCB3	4079	30058	4959	1784
12:54	ZZZZZZ	3599	25674	4806	1373
12:58	ZZZZZZ	3592	25825	4811	1352
13:03	MA10945-CCV4	3896	28681	4846	1511
13:07	MA10945-CCB4	4074	29971	4892	1781
13:12	MA10945-CRIA2	4026	29561	4923	1712
13:16	MA10945-ICSA2	3591	25903	4673	1313
13:20	MA10945-ICSAB2	3586	26053	4687	1297
13:25	MA10945-CCV5	3885	28606	4820	1516

INTERNAL STANDARD SUMMARY

Login Number: FA6777
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA080213M2.ICP Date Analyzed: 08/02/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10945
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
13:29	MA10945-CCB5	4064	29870	4825	1780

R = Reference for ISTD limits. ! = Outside limits.

LEGEND:

Istd#	Parameter	Limits
Istd#1	Yttrium (2243)	60-125 %
Istd#2	Yttrium (3600)	60-125 %
Istd#3	Yttrium (3710)	60-125 %
Istd#4	Indium	60-125 %

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: FA6777
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA080213M2.ICP Date Analyzed: 08/02/13 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA10945 Units: ug/l

Time: / Sample ID:			09:06 ICB1		09:43 CCB1		10:37 CCB2		12:11 CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	15	-0.70	<200	11.8	<200	7.3	<200	4.6	<200
Antimony	6.0	1.3	-0.30	<6.0	-0.70	<6.0	0.60	<6.0	0.90	<6.0
Arsenic	10	1.6	-0.30	<10	-0.10	<10	-0.70	<10	-0.90	<10
Barium	200	1								
Beryllium	4.0	.5								
Cadmium	5.0	.5	-0.10	<5.0	0.10	<5.0	0.10	<5.0	0.0	<5.0
Calcium	1000	50	0.0	<1000	15.7	<1000	15.6	<1000	16.3	<1000
Chromium	10	1.8	-0.30	<10	0.10	<10	0.0	<10	-0.40	<10
Cobalt	50	.5								
Copper	25	1								
Iron	300	29	0.10	<300	14.1	<300	22.0	<300	13.9	<300
Lead	5.0	1.1	anr							
Magnesium	5000	74	-45	<5000	-30	<5000	-13	<5000	-18	<5000
Manganese	15	.7								
Molybdenum	50	.6								
Nickel	40	.5								
Potassium	10000	200	16.1	<10000	24.7	<10000	9.2	<10000	23.4	<10000
Selenium	10	2	0.20	<10	1.3	<10	1.3	<10	0.40	<10
Silver	10	.5								
Sodium	10000	500	-5.4	<10000	16.7	<10000	37.7	<10000	300	<10000
Strontium	10	.5								
Thallium	10	1.3	anr							
Tin	50	.7								
Titanium	10	.9								
Vanadium	50	.5								
Zinc	20	3								

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: FA6777
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA080213M2.ICP Date Analyzed: 08/02/13 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA10945 Units: ug/l

Time: / Sample ID:			13:07 CCB4		13:29 CCB5	
Metal	RL	IDL	raw	final	raw	final
Aluminum	200	15	-2.3	<200	13.9	<200
Antimony	6.0	1.3	-0.50	<6.0	0.40	<6.0
Arsenic	10	1.6	-0.10	<10	-0.90	<10
Barium	200	1				
Beryllium	4.0	.5				
Cadmium	5.0	.5	0.10	<5.0	0.10	<5.0
Calcium	1000	50	7.6	<1000	21.0	<1000
Chromium	10	1.8	-0.30	<10	-0.20	<10
Cobalt	50	.5				
Copper	25	1				
Iron	300	29	11.8	<300	22.7	<300
Lead	5.0	1.1	anr			
Magnesium	5000	74	-2.1	<5000	-8.0	<5000
Manganese	15	.7				
Molybdenum	50	.6				
Nickel	40	.5				
Potassium	10000	200	44.4	<10000	6.0	<10000
Selenium	10	2	1.7	<10	1.6	<10
Silver	10	.5				
Sodium	10000	500	224	<10000	83.8	<10000
Strontium	10	.5				
Thallium	10	1.3	anr			
Tin	50	.7				
Titanium	10	.9				
Vanadium	50	.5				
Zinc	20	3				

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA6777
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA080213M2.ICP Date Analyzed: 08/02/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA10945 Units: ug/l

Time:		08:58			09:37			10:33	
Sample ID:	ICV	ICV1		CCV	CCV1		CCV	CCV2	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	40000	100.0	40000	40700	101.8	40000	41000	102.5
Antimony	2000	1980	99.0	2000	1970	98.5	2000	1980	99.0
Arsenic	2000	1990	99.5	2000	1970	98.5	2000	1980	99.0
Barium									
Beryllium									
Cadmium	2000	2010	100.5	2000	1990	99.5	2000	2000	100.0
Calcium	40000	41000	102.5	40000	40600	101.5	40000	40600	101.5
Chromium	2000	2050	102.5	2000	2030	101.5	2000	2040	102.0
Cobalt									
Copper									
Iron	40000	40800	102.0	40000	41100	102.8	40000	41200	103.0
Lead	anr								
Magnesium	40000	39900	99.8	40000	40500	101.3	40000	40500	101.3
Manganese									
Molybdenum									
Nickel									
Potassium	40000	40800	102.0	40000	40500	101.3	40000	40500	101.3
Selenium	2000	2000	100.0	2000	1970	98.5	2000	1970	98.5
Silver									
Sodium	40000	40600	101.5	40000	40400	101.0	40000	40400	101.0
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium									
Zinc									

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA6777
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA080213M2.ICP Date Analyzed: 08/02/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA10945 Units: ug/l

Time:		12:07			13:03			13:25	
Sample ID:	CCV	CCV3		CCV	CCV4		CCV	CCV5	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	41400	103.5	40000	41400	103.5	40000	41400	103.5
Antimony	2000	1980	99.0	2000	1980	99.0	2000	1990	99.5
Arsenic	2000	1990	99.5	2000	1980	99.0	2000	1990	99.5
Barium									
Beryllium									
Cadmium	2000	2000	100.0	2000	1990	99.5	2000	2000	100.0
Calcium	40000	41000	102.5	40000	40800	102.0	40000	40900	102.3
Chromium	2000	2050	102.5	2000	2050	102.5	2000	2040	102.0
Cobalt									
Copper									
Iron	40000	41300	103.3	40000	40900	102.3	40000	40900	102.3
Lead	anr								
Magnesium	40000	40700	101.8	40000	40200	100.5	40000	40200	100.5
Manganese									
Molybdenum									
Nickel									
Potassium	40000	41800	104.5	40000	42300	105.8	40000	42500	106.3
Selenium	2000	1980	99.0	2000	1970	98.5	2000	1990	99.5
Silver									
Sodium	40000	40100	100.3	40000	40400	101.0	40000	41500	103.8
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium									
Zinc									

(*) Outside of QC limits
(anr) Analyte not requested

HIGH STANDARD CHECK SUMMARY

Login Number: FA6777
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA080213M2.ICP Date Analyzed: 08/02/13 Methods: SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA10945 Units: ug/l

Time:		08:52	
Sample ID:	HSTD	HSTD1	
Metal	True	Results	% Rec
Aluminum	80000	80100	100.1
Antimony	4000	4030	100.8
Arsenic	4000	4040	101.0
Barium			
Beryllium			
Cadmium	4000	3980	99.5
Calcium	80000	79100	98.9
Chromium	4000	3990	99.8
Cobalt			
Copper			
Iron	80000	79400	99.3
Lead	anr		
Magnesium	80000	80000	100.0
Manganese			
Molybdenum			
Nickel			
Potassium	80000	80400	100.5
Selenium	4000	4030	100.8
Silver			
Sodium	80000	80000	100.0
Strontium			
Thallium	anr		
Tin			
Titanium			
Vanadium			
Zinc			

(*) Outside of QC limits
(anr) Analyte not requested

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: FA6777
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA080213M2.ICP Date Analyzed: 08/02/13 Methods: SW846 6010C
QC Limits: CRI 70-130% CRIA 70-130% Run ID: MA10945 Units: ug/l

Time:			09:10		13:12	
Sample ID:	CRI	CRIA	CRIA1		CRIA2	
Metal	True	True	Results	% Rec	Results	% Rec
Aluminum	400	200	213	106.5	211	105.5
Antimony	10	5.0	5.3	106.0	4.4	88.0
Arsenic	20	10	10.0	100.0	9.2	92.0
Barium	400	200				
Beryllium	10	5.0				
Cadmium	10	5.0	5.1	102.0	5.1	102.0
Calcium	2000	1000	1060	106.0	1050	105.0
Chromium	20	10	9.8	98.0	10.2	102.0
Cobalt	100	50				
Copper	50	25				
Iron	600	300	319	106.3	308	102.7
Lead	10	5.0	anr			
Magnesium	10000	5000	5070	101.4	4950	99.0
Manganese	30	15				
Molybdenum	100	50				
Nickel	80	40				
Potassium	20000	10000	10200	102.0	10500	105.0
Selenium	20	10	11.1	111.0	11.4	114.0
Silver	20	10				
Sodium	20000	10000	10200	102.0	10400	104.0
Strontium	20	10				
Thallium	20	10	anr			
Tin	100	50				
Titanium	20	10				
Vanadium	100	50				
Zinc	40	20				

(*) Outside of QC limits
(anr) Analyte not requested

INTERFERING ELEMENT CHECK STANDARDS SUMMARY
Part 1 - ICSA and ICSAB Standards

Login Number: FA6777
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA080213M2.ICP Date Analyzed: 08/02/13 Methods: SW846 6010C
QC Limits: 80 to 120 % Recovery Run ID: MA10945 Units: ug/l

Time:			09:19		09:29		13:16		13:20	
Sample ID:	ICSA	ICSAB	ICSA1		ICSAB1		ICSA2		ICSAB2	
Metal	True	True	Results	% Rec	Results	% Rec	Results	% Rec	Results	% Rec
Aluminum	500000	500000	511000	102.2	504000	100.8	517000	103.4	505000	101.0
Antimony		1000	-0.20		996	99.6	0.70		1000	100.0
Arsenic		1000	-1.5		1010	101.0	-2.7		1010	101.0
Barium		500	-0.20		519	103.8	0.0		528	105.6
Beryllium		500	-0.30		491	98.2	-0.20		480	96.0
Cadmium		1000	0.0		893	89.3	0.50		896	89.6
Calcium	500000	500000	463000	92.6	469000	93.8	467000	93.4	467000	93.4
Chromium		500	-0.60		475	95.0	-0.80		475	95.0
Cobalt		500	1.4		453	90.6	1.4		458	91.6
Copper		500	0.0		518	103.6	-0.20		519	103.8
Iron	200000	200000	187000	93.5	184000	92.0	185000	92.5	180000	90.0
Lead		1000	0.0		939	93.9	0.60		943	94.3
Magnesium	500000	500000	487000	97.4	488000	97.6	478000	95.6	475000	95.0
Manganese		500	-0.30		479	95.8	0.0		477	95.4
Molybdenum		1000	-0.10		923	92.3	-0.30		939	93.9
Nickel		1000	-0.50		888	88.8	-0.60		893	89.3
Potassium			6.6		20.3		61.2		29.2	
Selenium		1000	1.9		961	96.1	4.6		967	96.7
Silver		1000	0.20		1010	101.0	0.60		1010	101.0
Sodium			89.1		108		422		292	
Strontium		1000	12.0		1020	102.0	12.0		1020	102.0
Thallium		1000	1.2		951	95.1	0.50		961	96.1
Tin		1000	2.8		904	90.4	3.2		914	91.4
Titanium		1000	-3.9		959	95.9	-4.0		955	95.5
Vanadium		500	-0.10		472	94.4	-0.20		466	93.2
Zinc		1000	-0.30		898	89.8	0.90		907	90.7

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: FA6777
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

QC Batch ID: MP25594
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 08/01/13

Metal	RL	IDL	MDL	MB raw	final
Aluminum	200	15	15	15.6	<200
Antimony	6.0	1.3	1.3	0.20	<6.0
Arsenic	10	1.6	2.5	-0.60	<10
Barium	200	1	1		
Beryllium	4.0	.5	.5		
Cadmium	5.0	.5	.5	0.10	<5.0
Calcium	1000	50	50	140	<1000
Chromium	10	1.8	2	0.60	<10
Cobalt	50	.5	.5		
Copper	25	1	1		
Iron	300	29	29	18.6	<300
Lead	5.0	1.1	1.1		
Magnesium	5000	74	74	17.8	<5000
Manganese	15	.7	.7		
Molybdenum	50	.6	1		
Nickel	40	.5	.5		
Potassium	10000	200	200	93.4	<10000
Selenium	10	2	2	-0.20	<10
Silver	10	.5	.5		
Sodium	10000	500	500	285	<10000
Strontium	10	.5	.5		
Thallium	10	1.3	1.3		
Tin	50	.7	1.8		
Titanium	10	.9	1		
Vanadium	50	.5	1		
Zinc	20	3	5		

Associated samples MP25594: FA6777-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FA6777
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

QC Batch ID: MP25594
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date:			08/01/13					08/01/13	
Metal	FA6772-1 Original	DUP	RPD	QC Limits	FA6772-1 Original	MS	Spikelot MPFLICP2	% Rec	QC Limits
Aluminum	511	487	4.8	0-20	511	28700	27000	104.4	80-120
Antimony	0.0	0.0	NC	0-20	0.0	559	500	111.8	80-120
Arsenic	1.7	2.1	21.1 (a)	0-20	1.7	2300	2000	114.9	80-120
Barium	anr								
Beryllium	anr								
Cadmium	0.0	0.0	NC	0-20	0.0	45.8	50	91.6	80-120
Calcium	308000	293000	5.0	0-20	308000	317000	25000	36.0 (b)	80-120
Chromium	0.0	36.1	6.4	0-20	0.0	231	200	96.3	80-120
Cobalt	anr								
Copper	anr								
Iron	147000	120000	6.5	0-20	147000	152000	26000	92.3	80-120
Lead	anr								
Magnesium	41000	33500	4.7	0-20	41000	56000	25000	83.6	80-120
Manganese	anr								
Molybdenum	anr								
Nickel	anr								
Potassium	62600	60100	4.1	0-20	62600	88900	25000	105.2	80-120
Selenium	0.00	0.0	NC	0-20	0.00	2310	2000	115.5	80-120
Silver	anr								
Sodium	5810000	5630000	3.1	0-20	5810000	5550000	25000	-1040.0b	80-120
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium	anr								
Zinc	anr								

Associated samples MP25594: FA6777-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) RPD acceptable due to low duplicate and sample concentrations.
(b) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FA6777
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

QC Batch ID: MP25594
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 08/01/13

Metal	FA6772-1 Original	MSD	Spikelot MPFLICP2	% Rec	MSD RPD	QC Limit
Aluminum	511	28400	27000	103.3	1.1	20
Antimony	0.0	551	500	110.2	1.4	20
Arsenic	1.7	2280	2000	113.9	0.9	20
Barium	anr					
Beryllium	anr					
Cadmium	0.0	45.4	50	90.8	0.9	20
Calcium	308000	310000	25000	8.0 (a)	2.2	20
Chromium	0.0	228	200	94.8	1.3	20
Cobalt	anr					
Copper	anr					
Iron	147000	142000	26000	53.8 (a)	6.8	20
Lead	anr					
Magnesium	41000	55400	25000	81.2	1.1	20
Manganese	anr					
Molybdenum	anr					
Nickel	anr					
Potassium	62600	88600	25000	104.0	0.3	20
Selenium	0.00	2280	2000	114.0	1.3	20
Silver	anr					
Sodium	5810000	5500000	25000	-1240.0a	0.9	20
Strontium						
Thallium	anr					
Tin						
Titanium						
Vanadium	anr					
Zinc	anr					

Associated samples MP25594: FA6777-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: FA6777
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

QC Batch ID: MP25594
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 08/01/13

Metal	BSP Result	Spikelot MPFLICP2	% Rec	QC Limits
Aluminum	27200	27000	100.7	80-120
Antimony	515	500	103.0	80-120
Arsenic	2050	2000	102.5	80-120
Barium	anr			
Beryllium	anr			
Cadmium	51.5	50	103.0	80-120
Calcium	25500	25000	102.0	80-120
Chromium	211	200	105.5	80-120
Cobalt	anr			
Copper	anr			
Iron	27000	26000	103.8	80-120
Lead	anr			
Magnesium	24700	25000	98.8	80-120
Manganese	anr			
Molybdenum	anr			
Nickel	anr			
Potassium	24900	25000	99.6	80-120
Selenium	2050	2000	102.5	80-120
Silver	anr			
Sodium	25200	25000	100.8	80-120
Strontium				
Thallium	anr			
Tin				
Titanium				
Vanadium	anr			
Zinc	anr			

Associated samples MP25594: FA6777-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: FA6777
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

QC Batch ID: MP25594
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 08/01/13

Metal	FA6772-1 Original	SDL 1:5	%DIF	QC Limits
Aluminum	511	510	0.3	0-10
Antimony	0.00	0.00	NC	0-10
Arsenic	1.70	0.00	100.0(a)	0-10
Barium	anr			
Beryllium	anr			
Cadmium	0.00	0.00	NC	0-10
Calcium	308000	328000	6.5	0-10
Chromium	0.00	43.5	13.0 (a)	0-10
Cobalt	anr			
Copper	anr			
Iron	147000	135000	5.9	0-10
Lead	anr			
Magnesium	41000	36700	4.6	0-10
Manganese	anr			
Molybdenum	anr			
Nickel	anr			
Potassium	62600	55700	11.0*(b)	0-10
Selenium	0.00	0.00	NC	0-10
Silver	anr			
Sodium	5810000	6990000	20.4*(b)	0-10
Strontium				
Thallium	anr			
Tin				
Titanium				
Vanadium	anr			
Zinc	anr			

Associated samples MP25594: FA6777-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
(b) Serial dilution indicates possible matrix interference.

POST DIGESTATE SPIKE SUMMARY

Login Number: FA6777
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

QC Batch ID: MP25594
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 08/01/13

Metal	Sample ml	Final ml	FA6772-1 Raw	Corr.**	PS ug/l	Spike ml	Spike ug/ml	Spike ug/l	% Rec	QC Limits
Aluminum	9.8	10	511.4	501.172	3044	0.2	125	2500	101.7	80-120
Antimony	9.8	10			107.4	0.2	5	100	107.4	80-120
Arsenic	9.8	10	1.7	1.666	117.5	0.2	5	100	115.8	80-120
Barium										
Beryllium										
Cadmium	9.8	10			46.4	0.2	2.5	50	92.8	80-120
Calcium	9.8	10	308300	302134	304900	0.2	250	5000	55.3*(a)	80-120
Chromium	9.8	10		37.73	85.6	0.2	2.5	50	95.7	80-120
Cobalt										
Copper										
Iron	9.8	10	146700	125342	128200	0.2	150	3000	95.3	80-120
Lead										
Magnesium	9.8	10	40960	34407.8	38420	0.2	250	5000	80.2	80-120
Manganese										
Molybdenum										
Nickel										
Potassium	9.8	10	62560	61308.8	72030	0.2	500	10000	107.2	80-120
Selenium	9.8	10			104	0.2	5	100	104.0	80-120
Silver										
Sodium	9.8	10	5808000	5691840	5587000	0.2	500	10000	-1048.4*a	80-120
Strontium										
Thallium										
Tin										
Titanium										
Vanadium										
Zinc										

Associated samples MP25594: FA6777-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(**) Corr. sample result = Raw * (sample volume / final volume)
(anr) Analyte not requested
(a) Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

Southeast ACCUTEST LABORATORIES

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries
- Instrument Runlogs/QC

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: FA6777
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Alkalinity, Total as CaCO3	GN57026	5.0	2.2	mg/l	250	246	98.4	90-113%
Fluoride	GP22223/GN57121	0.20	0.0	mg/l	2.5	2.39	95.6	90-110%
Nitrogen, Nitrate	GP22182/GN57013	0.10	0.0	mg/l	2.5	2.61	104.4	90-110%
Nitrogen, Nitrite	GP22182/GN57013	0.10	0.0	mg/l	2.5	2.58	103.2	90-110%
Phosphate, Ortho	GP22176/GN56996	0.10	0.0	mg/l	.300	0.30	101.0	83-116%
Phosphorus, Total	GP22211/GN57095	0.10	0.0	mg/l	.300	0.30	99.1	81-118%
Solids, Total Dissolved	GN57076	100	19.0	mg/l				
Specific Conductivity	GN56988	1.0	0.0	umhos/cm				
Sulfate	GP22182/GN57013	2.0	0.0	mg/l	50	51.5	103.0	90-110%

Associated Samples:
Batch GN56988: FA6777-1
Batch GN57026: FA6777-1
Batch GN57076: FA6777-1
Batch GP22176: FA6777-1F
Batch GP22182: FA6777-1
Batch GP22211: FA6777-1
Batch GP22223: FA6777-1
(*) Outside of QC limits

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: FA6777
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Alkalinity, Total as CaCO3	GN57026	FA6730-1	mg/l	463	462	0.2	0-20%
Solids, Total Dissolved	GN57076	FA6851-3	mg/l	606	606	0.0	0-5%
Specific Conductivity	GN56988	FA6777-1	umhos/cm	12800	12800	0.1	0-10%
pH	GN56985	FA6770-1	su	6.29	6.28	0.2	0-10%

Associated Samples:
Batch GN56985: FA6777-1
Batch GN56988: FA6777-1
Batch GN57026: FA6777-1
Batch GN57076: FA6777-1
(*) Outside of QC limits

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: FA6777
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Fluoride	GP22223/GN57121	FA6662-1	mg/l	0.37	2.5	3.7	133.2N(a)	90-110%
Nitrogen, Nitrate	GP22182/GN57013	FA6773-3	mg/l	0.25 U	2.5	2.5	100.0	90-110%
Nitrogen, Nitrite	GP22182/GN57013	FA6773-3	mg/l	0.25 U	2.5	2.6	104.0	90-110%
Phosphate, Ortho	GP22176/GN56996	FA6777-1F	mg/l	1550	1500	2210	43.8*(a)	83-116%
Phosphorus, Total	GP22211/GN57095	FA6763-8	mg/l	0.25	.300	0.54	94.9	81-118%
Sulfate	GP22182/GN57013	FA6773-3	mg/l	95.1	50	143	95.8	90-110%

Associated Samples:
Batch GP22176: FA6777-1F
Batch GP22182: FA6777-1
Batch GP22211: FA6777-1
Batch GP22223: FA6777-1
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(a) Spike recovery indicates possible matrix interference.

MATRIX SPIKE DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: FA6777
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MSD Result	RPD	QC Limit
Fluoride	GP22223/GN57121	FA6662-1	mg/l	0.37	2.5	3.5	5.6	20%
Nitrogen, Nitrate	GP22182/GN57013	FA6773-3	mg/l	0.25 U	2.5	2.4	4.1	20%
Nitrogen, Nitrite	GP22182/GN57013	FA6773-3	mg/l	0.25 U	2.5	2.4	8.0	20%
Phosphate, Ortho	GP22176/GN56996	FA6777-1F	mg/l	1550	1500	2180	1.5	26%
Phosphorus, Total	GP22211/GN57095	FA6763-8	mg/l	0.25	.300	0.578	7.4	22%
Sulfate	GP22182/GN57013	FA6773-3	mg/l	95.1	50	138	3.6	20%

Associated Samples:
Batch GP22176: FA6777-1F
Batch GP22182: FA6777-1
Batch GP22211: FA6777-1
Batch GP22223: FA6777-1
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA6777
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: 313260701.TXT Date Analyzed: 07/26/13 Methods: EPA 300/SW846 9056A
Analyst: AC Run ID: GN57013
Parameters: Chloride,Nitrogen, Nitrate,Sulfate

Time	Sample Description	Dilution Factor	PS Recov	Comments
11:34	GN57013-CCV1	1		
11:51	GP22182-MB1	1		
12:08	GP22182-B1	1		
12:59	ZZZZZZ	1		
13:17	ZZZZZZ	1		
13:34	FA6773-3	5		(sample used for QC only; not part of login FA6777)
13:51	FA6777-1	100		
14:08	GP22182-S1	5		
14:25	GP22182-S2	5		
14:43	GN57013-CCV2	1		
15:00	GN57013-CCB1	1		
15:17	ZZZZZZ	2		
16:41	GN57013-CCV3	1		
16:57	GP22170-MB1	1		
17:13	GP22170-B1	1		
17:29	FA6753-1	1		(sample used for QC only; not part of login FA6777)
17:45	ZZZZZZ	1		
18:01	ZZZZZZ	1		
18:17	ZZZZZZ	1		
18:32	ZZZZZZ	1		
18:48	ZZZZZZ	1		
19:04	ZZZZZZ	1		
19:36	GN57013-CCV4	1		
19:52	GN57013-CCB2	1		
20:08	ZZZZZZ	1		
20:24	ZZZZZZ	1		
20:40	ZZZZZZ	1		
20:56	GP22170-S1	1		
21:12	GP22170-S2	1		
21:43	GN57013-CCV5	1		
21:59	GN57013-CCB3	1		

Refer to raw data for calibration curve and standards.

Instrument QC Summary
Inorganics Analyses

Login Number: FA6777
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: 313260701.TXT Date Analyzed: 07/26/13 Methods: EPA 300/SW846 9056A
Run ID: GN57013 Units: mg/l

Sample Number	Parameter	Result	RL	IDL/MDL	True Value	% Recov.	QC Limits
GN57013-CCV1	Chloride	50.3	2.0	0.80	50	100.6	90-110
GN57013-CCV1	Nitrogen, Nitrate	2.6	0.10	0.050	2.5	104.0	90-110
GN57013-CCV1	Sulfate	50.9	2.0	0.60	50	101.8	90-110
GN57013-CCV2	Chloride	50.3	2.0	0.80	50	100.6	90-110
GN57013-CCV2	Nitrogen, Nitrate	2.6	0.10	0.050	2.5	104.0	90-110
GN57013-CCV2	Sulfate	50.0	2.0	0.60	50	100.0	90-110
GN57013-CCB1	Chloride	0.80 U	2.0	0.80			
GN57013-CCB1	Nitrogen, Nitrate	0.050 U	0.10	0.050			
GN57013-CCB1	Sulfate	0.60 U	2.0	0.60			
GN57013-CCV3	Chloride	50.3	2.0	0.80	50	100.6	90-110
GN57013-CCV3	Nitrogen, Nitrate	2.6	0.10	0.050	2.5	104.0	90-110
GN57013-CCV3	Sulfate	50.4	2.0	0.60	50	100.8	90-110
GN57013-CCV4	Chloride	50.0	2.0	0.80	50	100.0	90-110
GN57013-CCV4	Nitrogen, Nitrate	2.6	0.10	0.050	2.5	104.0	90-110
GN57013-CCV4	Sulfate	50.0	2.0	0.60	50	100.0	90-110
GN57013-CCB2	Chloride	0.80 U	2.0	0.80			
GN57013-CCB2	Nitrogen, Nitrate	0.050 U	0.10	0.050			
GN57013-CCB2	Sulfate	0.60 U	2.0	0.60			
GN57013-CCV5	Chloride	50.1	2.0	0.80	50	100.2	90-110
GN57013-CCV5	Nitrogen, Nitrate	2.6	0.10	0.050	2.5	104.0	90-110
GN57013-CCV5	Sulfate	49.9	2.0	0.60	50	99.8	90-110
GN57013-CCB3	Chloride	0.80 U	2.0	0.80			
GN57013-CCB3	Nitrogen, Nitrate	0.050 U	0.10	0.050			
GN57013-CCB3	Sulfate	0.60 U	2.0	0.60			

(!) Outside of QC limits

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA6777
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: 213020801.TXT Date Analyzed: 08/02/13 Methods: EPA 300/SW846 9056A
Analyst: AA Run ID: GN57121
Parameters: Fluoride

Time	Sample Description	Dilution Factor	PS Recov	Comments
10:58	GN57121-CCV1	1		
11:18	GP22223-MB1	1		
11:35	GP22223-B1	1		
12:25	ZZZZZZ	1		
12:42	ZZZZZZ	5		
12:59	ZZZZZZ	5		
13:16	ZZZZZZ	5		
13:33	ZZZZZZ	5		
13:50	FA6662-1	1		(sample used for QC only; not part of login FA6777)
14:07	GN57121-CCV2	1		
14:24	GN57121-CCB1	1		
14:41	FA6777-1	2000		
14:58	ZZZZZZ	2		
15:15	ZZZZZZ	1		
15:32	GP22223-S1	1		
15:49	GP22223-S2	1		
16:05	GN57121-CCV3	1		
16:22	GP22222-MB1	1		
16:39	GP22222-B1	1		
16:56	ZZZZZZ	5		
17:13	FA6918-2	1		(sample used for QC only; not part of login FA6777)
17:30	ZZZZZZ	5		
17:47	ZZZZZZ	1		
18:04	ZZZZZZ	5		
18:21	GP22222-S1	1		
18:38	GP22222-S2	1		
19:12	GN57121-CCV4	1		
19:29	GN57121-CCB2	1		

Refer to raw data for calibration curve and standards.

Instrument QC Summary
Inorganics Analyses

Login Number: FA6777
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: 213020801.TXT Date Analyzed: 08/02/13 Methods: EPA 300/SW846 9056A
Run ID: GN57121 Units: mg/l

Sample Number	Parameter	Result	RL	IDL/MDL	True Value	% Recov.	QC Limits
GN57121-CCV1	Fluoride	2.5	0.20	0.060	2.5	100.0	90-110
GN57121-CCV2	Fluoride	2.7	0.20	0.060	2.5	108.0	90-110
GN57121-CCB1	Fluoride	0.060 U	0.20	0.060			
GN57121-CCV3	Fluoride	2.7	0.20	0.060	2.5	108.0	90-110
GN57121-CCV4	Fluoride	2.7	0.20	0.060	2.5	108.0	90-110
GN57121-CCB2	Fluoride	0.060 U	0.20	0.060			

(!) Outside of QC limits

Southeast ACCUTEST LABORATORIES

08/14/13

Technical Report for

WSP Environment & Energy

Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID 36785.01

Accutest Job Number: FA6957

Sampling Date: 08/01/13

Report to:

WSP Environment & Energy
205 West Park Street
Jackson, MO 63755
tim.huff@wspgroup.com

ATTN: Tim Huff

Total number of pages in report: **57**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Harry Behzadi, Ph.D.
Laboratory Director

Client Service contact: Andrea Colby 407-425-6700

Certifications: FL (E83510), LA (03051), KS (E-10327), IA (366), IL (200063), NC (573), NJ (FL002), SC (96038001) DoD ELAP (L-A-B L2229), CA (04226CA), TX (T104704404), AK, AR, GA, KY, MA, NV, OK, UT, VA, WA, WI

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Sample Summary

WSP Environment & Energy

Job No: FA6957

Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID
Project No: 36785.01

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA6957-1	08/01/13	10:05	TP	08/02/13	AQ	Ground Water	A-34-022
FA6957-1F	08/01/13	10:05	TP	08/02/13	AQ	Groundwater Filtered	A-34-022

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: WSP Environment & Energy **Job No:** FA6957

Site: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID **Report Date:** 8/13/2013 5:53:19 PM

1 Sample(s) was collected on 08/01/2013 and was received at Accutest SE on 08/02/2013 properly preserved, at 2.8 Deg. C and intact. The Sample received an Accutest job number of FA6957. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Metals By Method SW846 6010C

Matrix: AQ **Batch ID:** MP25618

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA6960-1DUP, FA6960-1MS, FA6960-1MSD, FA6960-1PS, FA6960-1SDL were used as the QC samples for metals.

Matrix Spike Recovery(s)/Matrix Spike Duplicate Recovery(s) for Selenium are outside control limits. Spike recovery indicates possible matrix interference. Refer to lab control or spike blank for recovery information.

Matrix Spike Recovery(s)/Matrix Spike Duplicate Recovery(s) for Sodium are outside control limits. Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

RPD(s) for Duplicate for Selenium are outside control limits for sample MP25618-D1. RPD acceptable due to low duplicate and sample concentrations.

RPD(s) for Serial Dilution for Aluminum, Selenium are outside control limits for sample MP25618-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

MP25618-PS1 for Sodium: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP25618-PS1 for Calcium: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.
FA6957-1 for Antimony: Elevated reporting limit(s) due to matrix interference.
FA6957-1 for Chromium: Elevated reporting limit(s) due to matrix interference.
FA6957-1 for Calcium: Elevated reporting limit(s) due to matrix interference.
FA6957-1 for Cadmium: Elevated reporting limit(s) due to matrix interference.
FA6957-1 for Arsenic: Elevated reporting limit(s) due to matrix interference.

FA6957-1 for Selenium: Elevated reporting limit(s) due to matrix interference.

Wet Chemistry By Method EPA 120.1

Matrix: AQ **Batch ID:** GN57114

Sample(s) FA6957-1DUP was used as the QC sample for Specific Conductivity.

Wet Chemistry By Method EPA 300/SW846 9056A

Matrix: AQ **Batch ID:** GP22231

All samples were prepped within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA6957-1MSD, FA6957-1MS were used as the QC samples for Chloride, Nitrogen, Nitrate, Sulfate.

Matrix Spike Recovery(s) for Chloride and Nitrogen, Nitrate are outside control limits. Spike recovery indicates possible matrix interference. Refer to lab control or spike blank for recovery information.
Matrix Spike Recovery(s) for Sulfate are outside control limits. Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

FA6957-1 for Nitrogen, Nitrate: Dilution required due to matrix interference.
FA6957-1 for Chloride: Dilution required due to matrix interference.

Wet Chemistry By Method EPA 300/SW846 9056A

Matrix: AQ **Batch ID:** GP22283

All samples were prepped within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA6957-1MSD, FA6957-1MS were used as the QC samples for Fluoride.

Matrix Spike Recovery(s) for Fluoride are outside control limits. Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.
RPD(s) for MSD for Fluoride are outside control limits for sample GP22283-S2. High RPD is due to possible sample non-homogeneity.

Wet Chemistry By Method EPA 365.3

Matrix: AQ **Batch ID:** GP22221

All samples were prepped within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA6957-1FMS, FA6957-1FMSD were used as the QC samples for Phosphate, Ortho.

Matrix: AQ **Batch ID:** GP22232

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA6957-1MSD, FA6957-1MS were used as the QC samples for Phosphorus, Total.

Matrix Spike Recovery(s) for Phosphorus, Total are outside control limits. Spike recovery indicates possible matrix interference. Refer to lab control or spike blank for recovery information.

Wet Chemistry By Method SM 4500H B/SW 9040C

Matrix: AQ **Batch ID:** GN57113

Sample(s) FA6957-1DUP was used as the QC sample for pH.

FA6957-1 for pH: Field analysis required. Received out of hold time and analyzed by request.

Wet Chemistry By Method SM19 2320B

Matrix: AQ **Batch ID:** GN57110

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA6919-6DUP was used as the QC sample for Alkalinity, Total as CaCO3.

Wet Chemistry By Method SM19 2540C

Matrix: AQ **Batch ID:** GN57180

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA7021-5DUP was used as the QC sample for Solids, Total Dissolved.

Accutest Laboratories Southeast (ALSE) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALSE and as stated on the COC. ALSE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the ALSE Quality Manual except as noted above. This report is to be used in its entirety. ALSE is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

Date: August 13, 2013

Kim Benham, Client Services (signature on file)

Summary of Hits

Job Number: FA6957
Account: WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID
Collected: 08/01/13

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA6957-1	**A-34-022**					
Aluminum		944	2.0	0.15	mg/l	SW846 6010C
Arsenic [a]		0.205	0.10	0.025	mg/l	SW846 6010C
Cadmium [a]		1.74	0.050	0.0050	mg/l	SW846 6010C
Calcium [a]		554	10	0.50	mg/l	SW846 6010C
Chromium [a]		1.42	0.10	0.020	mg/l	SW846 6010C
Iron		992	3.0	0.29	mg/l	SW846 6010C
Magnesium		646	50	0.74	mg/l	SW846 6010C
Potassium		269	100	2.0	mg/l	SW846 6010C
Sodium		451	100	5.0	mg/l	SW846 6010C
Chloride [b]		143 J	200	80	mg/l	EPA 300/SW846 9056A
Fluoride		5350	400	120	mg/l	EPA 300/SW846 9056A
Nitrogen, Nitrate [b]		7.2 J	10	5.0	mg/l	EPA 300/SW846 9056A
Phosphorus, Total		1730	500	140	mg/l	EPA 365.3
Solids, Total Dissolved		15900	1000	100	mg/l	SM19 2540C
Specific Conductivity		12200	1.0	1.0	umhos/cm	EPA 120.1
Sulfate		8450	200	60	mg/l	EPA 300/SW846 9056A
pH [c]		2.45			su	SM 4500H B/SW 9040C
FA6957-1F	**A-34-022**					
Phosphate, Ortho		1450	500	95	mg/l	EPA 365.3

(a) Elevated reporting limit(s) due to matrix interference.
(b) Dilution required due to matrix interference.
(c) Field analysis required. Received out of hold time and analyzed by request.

Southeast ACCUTEST LABORATORIES

4

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: A-34-022
Lab Sample ID: FA6957-1
Matrix: AQ - Ground Water
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

Date Sampled: 08/01/13
Date Received: 08/02/13
Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	944	2.0	0.15	mg/l	10	08/06/13	08/07/13	LM	SW846 6010C [1]	SW846 3010A [2]
Antimony [a]	0.013 U	0.060	0.013	mg/l	10	08/06/13	08/07/13	LM	SW846 6010C [1]	SW846 3010A [2]
Arsenic [a]	0.205	0.10	0.025	mg/l	10	08/06/13	08/07/13	LM	SW846 6010C [1]	SW846 3010A [2]
Cadmium [a]	1.74	0.050	0.0050	mg/l	10	08/06/13	08/07/13	LM	SW846 6010C [1]	SW846 3010A [2]
Calcium [a]	554	10	0.50	mg/l	10	08/06/13	08/07/13	LM	SW846 6010C [1]	SW846 3010A [2]
Chromium [a]	1.42	0.10	0.020	mg/l	10	08/06/13	08/07/13	LM	SW846 6010C [1]	SW846 3010A [2]
Iron	992	3.0	0.29	mg/l	10	08/06/13	08/07/13	LM	SW846 6010C [1]	SW846 3010A [2]
Magnesium	646	50	0.74	mg/l	10	08/06/13	08/07/13	LM	SW846 6010C [1]	SW846 3010A [2]
Potassium	269	100	2.0	mg/l	10	08/06/13	08/07/13	LM	SW846 6010C [1]	SW846 3010A [2]
Selenium [a]	0.020 U	0.10	0.020	mg/l	10	08/06/13	08/07/13	LM	SW846 6010C [1]	SW846 3010A [2]
Sodium	451	100	5.0	mg/l	10	08/06/13	08/07/13	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10956
(2) Prep QC Batch: MP25618

(a) Elevated reporting limit(s) due to matrix interference.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: A-34-022
Lab Sample ID: FA6957-1
Matrix: AQ - Ground Water
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

Date Sampled: 08/01/13
Date Received: 08/02/13
Percent Solids: n/a

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Alkalinity, Bicarbonate as CaC	5.0 U	5.0	5.0	mg/l	1	08/02/13 13:45	AC	SM18 4500CO2D
Alkalinity, Carbonate	5.0 U	5.0	5.0	mg/l	1	08/02/13 13:45	AC	SM18 4500CO2D
Alkalinity, Total as CaCO3	0.60 U	5.0	0.60	mg/l	1	08/02/13 13:45	LE	SM19 2320B
Chloride [a]	143 J	200	80	mg/l	100	08/02/13 11:45	AA	EPA 300/SW846 9056A
Fluoride	5350	400	120	mg/l	2000	08/09/13 10:56	AA	EPA 300/SW846 9056A
Nitrogen, Nitrate [a]	7.2 J	10	5.0	mg/l	100	08/02/13 11:45	AA	EPA 300/SW846 9056A
Phosphorus, Total	1730	500	140	mg/l	5000	08/05/13 09:15	LE	EPA 365.3
Solids, Total Dissolved	15900	1000	100	mg/l	10	08/08/13 14:25	KC	SM19 2540C
Specific Conductivity	12200	1.0	1.0	umhos/cm	1	08/02/13 13:20	AC	EPA 120.1
Sulfate	8450	200	60	mg/l	100	08/02/13 11:45	AA	EPA 300/SW846 9056A
pH [b]	2.45			su	1	08/02/13 13:35	AC	SM 4500H B/SW 9040C

(a) Dilution required due to matrix interference.
(b) Field analysis required. Received out of hold time and analyzed by request.

RL = Reporting Limit
MDL = Method Detection Limit
U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	A-34-022		
Lab Sample ID:	FA6957-1F	**Date Sampled:**	08/01/13
Matrix:	AQ - Groundwater Filtered	**Date Received:**	08/02/13
		Percent Solids:	n/a
Project:	Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Phosphate, Ortho	1450	500	95	mg/l	5000	08/02/13 12:30	LE	EPA 365.3

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

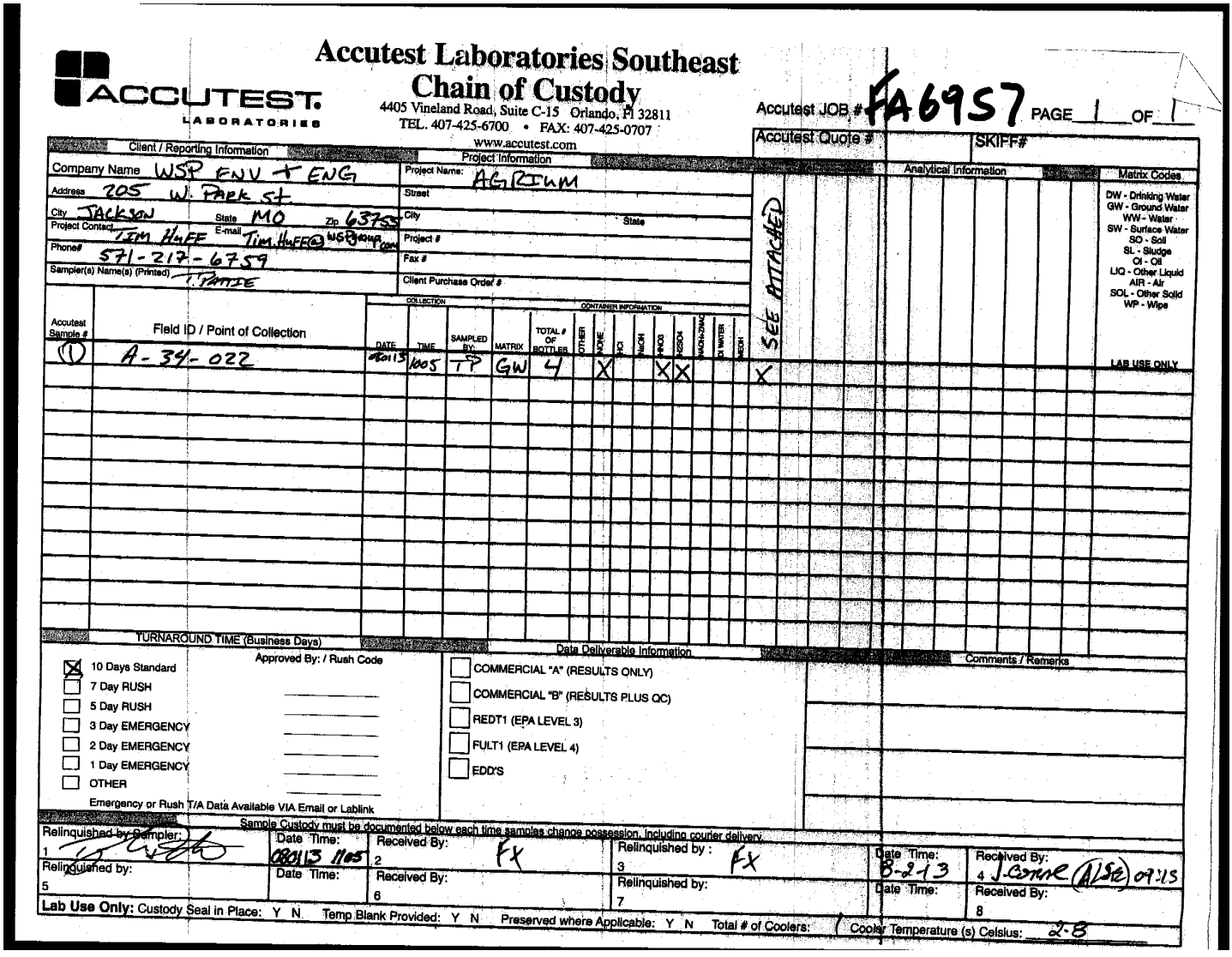
Southeast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody



Accutest Laboratories Southeast
Chain of Custody

ACCUTEST LABORATORIES

4405 Vineland Road, Suite C-15 Orlando, Fl 32811
TEL. 407-425-6700 • FAX: 407-425-0707
www.accutest.com

Accutest JOB # FA6957 PAGE 1 OF 1

Accutest Quote # | SKIFF#

Client / Reporting Information

Company Name: WSP ENV + ENG
Address: 205 W. Park St
City: JACKSON State: MO Zip: 63755
Project Contact: TIM HUFF E-mail: TIM.HUFF@WSPgroup.com
Phone#: 571-217-6759
Sampler(s) Name(s) (Printed): T. PATTIE

Project Information

Project Name: AGRIUM
Street
City State
Project #
Fax #
Client Purchase Order #

Analytical Information

Accutest Sample #	Field ID / Point of Collection	DATE	TIME	SAMPLED BY:	MATRIX	TOTAL # OF BOTTLES	OTHER	NONE	HCl	NaOH	HNO3	H2SO4	NaOH+ZnAc	DI WATER	MEOH	SEE ATTACHED	LAB USE ONLY
1	A-34-022	080113	1005	TP	GW	4		X			X	X				X	

Matrix Codes
DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL - Sludge
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe

TURNAROUND TIME (Business Days)

Approved By: / Rush Code

- [x] 10 Days Standard
- [ ] 7 Day RUSH
- [ ] 5 Day RUSH
- [ ] 3 Day EMERGENCY
- [ ] 2 Day EMERGENCY
- [ ] 1 Day EMERGENCY
- [ ] OTHER

Emergency or Rush T/A Data Available VIA Email or Lablink

Data Deliverable Information

- [ ] COMMERCIAL "A" (RESULTS ONLY)
- [ ] COMMERCIAL "B" (RESULTS PLUS QC)
- [ ] REDT1 (EPA LEVEL 3)
- [ ] FULT1 (EPA LEVEL 4)
- [ ] EDD'S

Comments / Remarks

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished by:	Date Time:	Received By:
1 [signature]	080113 1105	2 FX	3 FX	8-2-13	4 J. Conne (ALSE) 09:15
Relinquished by: 5	Date Time:	Received By: 6	Relinquished by: 7	Date Time:	Received By: 8

Lab Use Only: Custody Seal in Place: Y N Temp Blank Provided: Y N Preserved where Applicable: Y N Total # of Coolers: 1 Cooler Temperature (s) Celsius: 2.8

5.1

5

FA6957: Chain of Custody
Page 1 of 3

FA 6957

O-Phos - Field Filtered

Note: A-34-022 High Phosphate

Analyte List #2 (groundwater samples and groundwater sampling equipment blanks)

- total dissolved solids (TDS)
- Total metals - aluminum, antimony, arsenic, cadmium, calcium, chromium, iron, magnesium, potassium, selenium, and sodium
- chloride, fluoride, nitrate as N, and sulfate
- pH
- total phosphorous
- dissolved orthophosphate
- bicarbonate and carbonate alkalinity as CaCO3
- specific conductance

NOTE – If turbidity at the time of sampling is greater than 50 NTU, collect dissolved metals sample and submit to laboratory ON HOLD for the same analyte list as the total metals sample.

5.1 5

FA6957: Chain of Custody
Page 2 of 3

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: FA6957 CLIENT: WSP PROJECT: AGRIUM

DATE/TIME RECEIVED: 8-2-13 09:15 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 1

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 8017 3146 6854

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET
- [ ] WET ICE PRESENT

TRIP BLANK INFORMATION

- [ ] TRIP BLANK PROVIDED
- [X] TRIP BLANK NOT PROVIDED
- [X] TRIP BLANK NOT ON COC
- [ ] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [ ] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM_____ 5-GRAM_____

NUMBER OF 5035 FIELD KITS ? _____

NUMBER OF LAB FILTERED METALS ? _____

TEMPERATURE INFORMATION

- [ ] IR THERM ID 1 CORR. FACTOR +0.2
- [ ] OBSERVED TEMPS: 2.6
- [ ] CORRECTED TEMPS: 2.8

SAMPLE INFORMATION

- [ ] SAMPLE LABELS PRESENT ON ALL BOTTLES
- [ ] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] 5035 FIELD KIT FROZEN WITHIN 48 HOUR'S
- [ ] RESIDUAL CHLORINE PRESENT

{APPICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

SUMMARY OF COMMENTS: _____

TECHNICIAN SIGNATURE/DATE: [illegible] 8-2-13 REVIEWER SIGNATURE/DATE: [illegible] 080213

NF 12/10

receipt confirmation 122910.xls

5.1 5

FA6957: Chain of Custody

Page 3 of 3

Southeast ACCUTEST LABORATORIES

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Instrument Runlogs
- Initial and Continuing Calibration Blanks
- Initial and Continuing Calibration Checks
- High and Low Check Standards
- Interfering Element Check Standards
- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA6957
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA080613M1.ICP Date Analyzed: 08/06/13 Methods: SW846 6010C
Analyst: DM Run ID: MA10953
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
08:28	MA10953-STD1	1		STDA
08:32	MA10953-STD2	1		STDB
08:35	MA10953-STD3	1		STDC
08:39	MA10953-STD4	1		STDD
08:43	MA10953-HSTD1	1		
08:47	MA10953-ICV1	1		
08:53	MA10953-ICB1	1		
08:57	MA10953-CRIA1	1		
09:06	MA10953-ICSA1	1		
09:13	MA10953-ICSAB1	1		
09:17	MA10953-CCV1	1		
09:22	MA10953-CCB1	1		
09:26	MP25615-MB1	1		
09:31	MP25615-B1	1		
09:35	FA6941-2	1		(sample used for QC only; not part of login FA6957)
09:40	MP25615-D1	1		
09:44	MP25615-SD1	5		
09:48	MP25615-PS1	1		
09:53	MP25615-S1	1		
09:57	MP25615-S2	1		
10:01	ZZZZZZ	1		
10:05	ZZZZZZ	1		
10:10	MA10953-CCV2	1		
10:14	MA10953-CCB2	1		
10:19	ZZZZZZ	1		
10:28	ZZZZZZ	1		
10:32	ZZZZZZ	1		
10:37	ZZZZZZ	1		
10:41	ZZZZZZ	1		
10:46	ZZZZZZ	1		
10:50	ZZZZZZ	1		
10:55	ZZZZZZ	1		
11:04	MA10953-CCV3	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA6957
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA080613M1.ICP Date Analyzed: 08/06/13 Methods: SW846 6010C
Analyst: DM Run ID: MA10953
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
11:08	MA10953-CCB3	1		
11:13	ZZZZZZ	1		
11:18	ZZZZZZ	1		
11:27	ZZZZZZ	1		
11:31	ZZZZZZ	1		
11:36	ZZZZZZ	1		
11:40	ZZZZZZ	1		
11:45	MP25618-MB1	1		
11:49	MP25618-B1	1		
11:54	FA6960-1	1		(sample used for QC only; not part of login FA6957)
11:58	MA10953-CCV4	1		
12:02	MA10953-CCB4	1		
12:07	MP25618-D1	1		
12:12	MP25618-SD1	5		
12:16	MP25618-PS1	1		
12:21	MP25618-S1	1		
12:25	MP25618-S2	1		
12:29	ZZZZZZ	1		
12:34	ZZZZZZ	1		
12:38	ZZZZZZ	1		
12:43	ZZZZZZ	1		
12:47	ZZZZZZ	1		
12:52	MA10953-CCV5	1		
12:56	MA10953-CCB5	1		
13:06	MP25618-MB2A	1		
---------->	Last reportable sample/prep for job FA6957			
13:10	MA10953-CRIA2	1		
13:15	MA10953-ICSA2	1		
13:20	MA10953-ICSAB2	1		
13:24	MA10953-CCV6	1		
13:28	MA10953-CCB6	1		
---------->	Last reportable CCB for job FA6957			

Refer to raw data for calibration curve and standards.

INTERNAL STANDARD SUMMARY

Login Number: FA6957
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA080613M1.ICP Date Analyzed: 08/06/13 Methods: SW846 6010C
Analyst: DM Run ID: MA10953
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
08:28	MA10953-STD1	2376	22174	4840	1261
08:32	MA10953-STD2	2352	21933	4846	1175
08:35	MA10953-STD3	2261	21184	4793	1058
08:39	MA10953-STD4	2175	20629	4741	971
08:43	MA10953-HSTD1	2178	20602	4737	973
08:47	MA10953-ICV1	2256	21189	4782	1052
08:53	MA10953-ICB1	2378 R	22379 R	4796 R	1253 R
08:57	MA10953-CRIA1	2350	22013	4791	1202
09:06	MA10953-ICSA1	2067	19079	4551	892
09:13	MA10953-ICSAB1	2044	18998	4513	877
09:17	MA10953-CCV1	2277	21339	4729	1048
09:22	MA10953-CCB1	2379	22422	4764	1247
09:26	MP25615-MB1	2333	22127	4688	1225
09:31	MP25615-B1	2263	21180	4639	1095
09:35	FA6941-2	2360	21786	4863	1016
09:40	MP25615-D1	2378	21994	4926	1037
09:44	MP25615-SD1	2407	22345	4818	1158
09:48	MP25615-PS1	2347	21618	4834	1000
09:53	MP25615-S1	2337	21634	4828	980
09:57	MP25615-S2	2334	21532	4844	981
10:01	ZZZZZZ	2296	21054	4780	937
10:05	ZZZZZZ	2520	23436	5074	1126
10:10	MA10953-CCV2	2310	21513	4728	1061
10:14	MA10953-CCB2	2396	22507	4758	1250
10:19	ZZZZZZ	2257	20981	4743	943
10:28	ZZZZZZ	2409	22400	4815	1087
10:32	ZZZZZZ	2318	21614	4748	1015
10:37	ZZZZZZ	2199	20673	4642	964
10:41	ZZZZZZ	2180	20506	4930	784
10:46	ZZZZZZ	2340	22207	4666	1206
10:50	ZZZZZZ	2243	21177	4588	1090
10:55	ZZZZZZ	2488	23236	5086	1012
11:04	MA10953-CCV3	2321	21755	4690	1059

INTERNAL STANDARD SUMMARY

Login Number: FA6957
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA080613M1.ICP Date Analyzed: 08/06/13 Methods: SW846 6010C
Analyst: DM Run ID: MA10953
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
11:08	MA10953-CCB3	2412	22703	4724	1252
11:13	ZZZZZZ	10965 !	99296 !	21833 !	1002
11:18	ZZZZZZ	4023 !	37387 !	8166 !	1017
11:27	ZZZZZZ	7870 !	71873 !	15823 !	1004
11:31	ZZZZZZ	5097 !	47237 !	10386 !	962
11:36	ZZZZZZ	5502 !	50700 !	11031 !	1027
11:40	ZZZZZZ	7902 !	72920 !	15809 !	1028
11:45	MP25618-MB1	2417	23042	4751	1257
11:49	MP25618-B1	2332	22020	4693	1109
11:54	FA6960-1	2142	20075	4631	985
11:58	MA10953-CCV4	2290	21665	4632	1045
12:02	MA10953-CCB4	2399	22688	4690	1239
12:07	MP25618-D1	2135	20051	4593	985
12:12	MP25618-SD1	2264	21483	4683	1109
12:16	MP25618-PS1	2138	20124	4598	975
12:21	MP25618-S1	2158	20377	4597	949
12:25	MP25618-S2	2161	20438	4612	952
12:29	ZZZZZZ	2215	21231	4606	1081
12:34	ZZZZZZ	2144	20662	4556	1041
12:38	ZZZZZZ	2342	22479	4685	1199
12:43	ZZZZZZ	2360	22560	4692	1189
12:47	ZZZZZZ	2166	20833	4564	1059
12:52	MA10953-CCV5	2274	21425	4641	1041
12:56	MA10953-CCB5	2401	22677	4727	1242
13:06	MP25618-MB2A	2364	22704	4763	1242
13:10	MA10953-CRIA2	2356	22147	4737	1195
13:15	MA10953-ICSA2	2061	18959	4462	886
13:20	MA10953-ICSAB2	2054	19025	4473	879
13:24	MA10953-CCV6	2276	21367	4698	1045
13:28	MA10953-CCB6	2375	22324	4731	1237

R = Reference for ISTD limits. ! = Outside limits.

LEGEND:

Istd#	Parameter	Limits
Istd#1	Yttrium (2243)	60-125 %
Istd#2	Yttrium (3600)	60-125 %
Istd#3	Yttrium (3710)	60-125 %

INTERNAL STANDARD SUMMARY

Login Number: FA6957
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA080613M1.ICP Date Analyzed: 08/06/13 Methods: SW846 6010C
Analyst: DM Run ID: MA10953
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
Istd#4	Indium		60-125 %		

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: FA6957
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA080613M1.ICP Date Analyzed: 08/06/13 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA10953 Units: ug/l

Time: / Sample ID:			08:53 ICB1		09:22 CCB1		10:14 CCB2		11:08 CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	15	-4.2	<200	6.5	<200	1.2	<200	6.7	<200
Antimony	6.0	1.3	-0.20	<6.0	0.50	<6.0	0.40	<6.0	0.20	<6.0
Arsenic	10	1.6	-1.2	<10	-1.1	<10	-1.4	<10	-1.8	<10
Barium	200	1	anr							
Beryllium	4.0	.5	anr							
Cadmium	5.0	.5	0.10	<5.0	0.30	<5.0	0.20	<5.0	0.10	<5.0
Calcium	1000	50	-2.2	<1000	16.6	<1000	14.3	<1000	23.1	<1000
Chromium	10	1.8	0.0	<10	0.50	<10	0.10	<10	0.20	<10
Cobalt	50	.5	anr							
Copper	25	1	anr							
Iron	300	29	-2.7	<300	13.8	<300	8.3	<300	43.7	<300
Lead	5.0	1.1	anr							
Magnesium	5000	74	41.6	<5000	37.2	<5000	-7.6	<5000	48.6	<5000
Manganese	15	.7	anr							
Molybdenum	50	.6								
Nickel	40	.5	anr							
Potassium	10000	200	18.0	<10000	-28	<10000	-24	<10000	-16	<10000
Selenium	10	2	-1.1	<10	0.60	<10	-1.5	<10	0.20	<10
Silver	10	.5	anr							
Sodium	10000	500	-3.4	<10000	-1.6	<10000	12.6	<10000	3.3	<10000
Strontium	10	.5								
Thallium	10	1.3	anr							
Tin	50	.7								
Titanium	10	.9								
Vanadium	50	.5	anr							
Zinc	20	3	anr							

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: FA6957
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA080613M1.ICP Date Analyzed: 08/06/13 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA10953 Units: ug/l

Time:			12:02		12:56		13:28	
Sample ID:			CCB4		CCB5		CCB6	
Metal	RL	IDL	raw	final	raw	final	raw	final
Aluminum	200	15	-6.4	<200	-5.1	<200	18.1	<200
Antimony	6.0	1.3	1.1	<6.0	-0.10	<6.0	0.10	<6.0
Arsenic	10	1.6	-0.30	<10	-2.0	<10	0.20	<10
Barium	200	1	anr					
Beryllium	4.0	.5	anr					
Cadmium	5.0	.5	0.20	<5.0	0.20	<5.0	0.10	<5.0
Calcium	1000	50	11.5	<1000	8.1	<1000	20.8	<1000
Chromium	10	1.8	0.0	<10	0.50	<10	0.30	<10
Cobalt	50	.5	anr					
Copper	25	1	anr					
Iron	300	29	8.2	<300	10.5	<300	25.5	<300
Lead	5.0	1.1	anr					
Magnesium	5000	74	10.5	<5000	17.9	<5000	40.9	<5000
Manganese	15	.7	anr					
Molybdenum	50	.6						
Nickel	40	.5	anr					
Potassium	10000	200	25.3	<10000	-25	<10000	11.5	<10000
Selenium	10	2	-0.10	<10	0.40	<10	0.50	<10
Silver	10	.5	anr					
Sodium	10000	500	45.6	<10000	34.0	<10000	54.5	<10000
Strontium	10	.5						
Thallium	10	1.3	anr					
Tin	50	.7						
Titanium	10	.9						
Vanadium	50	.5	anr					
Zinc	20	3	anr					

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA6957
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA080613M1.ICP Date Analyzed: 08/06/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA10953 Units: ug/l

Time:		08:47			09:17			10:10	
Sample ID:	ICV	ICV1		CCV	CCV1		CCV	CCV2	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	40000	100.0	40000	41400	103.5	40000	41300	103.3
Antimony	2000	2000	100.0	2000	1970	98.5	2000	1970	98.5
Arsenic	2000	2000	100.0	2000	1990	99.5	2000	1980	99.0
Barium	anr								
Beryllium	anr								
Cadmium	2000	2020	101.0	2000	2010	100.5	2000	2010	100.5
Calcium	40000	40900	102.3	40000	41300	103.3	40000	41900	104.8
Chromium	2000	2050	102.5	2000	2070	103.5	2000	2100	105.0
Cobalt	anr								
Copper	anr								
Iron	40000	41000	102.5	40000	42400	106.0	40000	42500	106.3
Lead	anr								
Magnesium	40000	39200	98.0	40000	41400	103.5	40000	41900	104.8
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium	40000	40700	101.8	40000	40800	102.0	40000	40600	101.5
Selenium	2000	2010	100.5	2000	1980	99.0	2000	1980	99.0
Silver	anr								
Sodium	40000	40600	101.5	40000	40700	101.8	40000	40400	101.0
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium	anr								
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA6957
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA080613M1.ICP Date Analyzed: 08/06/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA10953 Units: ug/l

Time:		11:04			11:58			12:52	
Sample ID:	CCV	CCV3		CCV	CCV4		CCV	CCV5	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	41300	103.3	40000	41800	104.5	40000	41600	104.0
Antimony	2000	1960	98.0	2000	1980	99.0	2000	1990	99.5
Arsenic	2000	1980	99.0	2000	1990	99.5	2000	1990	99.5
Barium	anr								
Beryllium	anr								
Cadmium	2000	2020	101.0	2000	2010	100.5	2000	2020	101.0
Calcium	40000	42000	105.0	40000	41700	104.3	40000	41700	104.3
Chromium	2000	2090	104.5	2000	2090	104.5	2000	2080	104.0
Cobalt	anr								
Copper	anr								
Iron	40000	42800	107.0	40000	43100	107.8	40000	42700	106.8
Lead	anr								
Magnesium	40000	41900	104.8	40000	41700	104.3	40000	41500	103.8
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium	40000	40800	102.0	40000	41400	103.5	40000	41300	103.3
Selenium	2000	1960	98.0	2000	1970	98.5	2000	1980	99.0
Silver	anr								
Sodium	40000	40400	101.0	40000	41100	102.8	40000	41000	102.5
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium	anr								
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA6957
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA080613M1.ICP Date Analyzed: 08/06/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA10953 Units: ug/l

Time:		13:24	
Sample ID:	CCV	CCV6	
Metal	True	Results	% Rec
Aluminum	40000	41300	103.3
Antimony	2000	1990	99.5
Arsenic	2000	2000	100.0
Barium	anr		
Beryllium	anr		
Cadmium	2000	2030	101.5
Calcium	40000	41600	104.0
Chromium	2000	2090	104.5
Cobalt	anr		
Copper	anr		
Iron	40000	42300	105.8
Lead	anr		
Magnesium	40000	41300	103.3
Manganese	anr		
Molybdenum			
Nickel	anr		
Potassium	40000	40900	102.3
Selenium	2000	1990	99.5
Silver	anr		
Sodium	40000	40600	101.5
Strontium			
Thallium	anr		
Tin			
Titanium			
Vanadium	anr		
Zinc	anr		

(*) Outside of QC limits
(anr) Analyte not requested

HIGH STANDARD CHECK SUMMARY

Login Number: FA6957
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA080613M1.ICP Date Analyzed: 08/06/13 Methods: SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA10953 Units: ug/l

Time:		08:43	
Sample ID:	HSTD	HSTD1	
Metal	True	Results	% Rec
Aluminum	80000	80200	100.3
Antimony	4000	4010	100.3
Arsenic	4000	4010	100.3
Barium	anr		
Beryllium	anr		
Cadmium	4000	3960	99.0
Calcium	80000	79300	99.1
Chromium	4000	3970	99.3
Cobalt	anr		
Copper	anr		
Iron	80000	79300	99.1
Lead	anr		
Magnesium	80000	80400	100.5
Manganese	anr		
Molybdenum			
Nickel	anr		
Potassium	80000	80200	100.3
Selenium	4000	4000	100.0
Silver	anr		
Sodium	80000	80100	100.1
Strontium			
Thallium	anr		
Tin			
Titanium			
Vanadium	anr		
Zinc	anr		

(*) Outside of QC limits
(anr) Analyte not requested

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: FA6957
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA080613M1.ICP Date Analyzed: 08/06/13 Methods: SW846 6010C
QC Limits: CRI 70-130% CRIA 70-130% Run ID: MA10953 Units: ug/l

Time:			08:57		13:10	
Sample ID:	CRI	CRIA	CRIA1		CRIA2	
Metal	True	True	Results	% Rec	Results	% Rec
Aluminum	400	200	210	105.0	231	115.5
Antimony	10	5.0	5.9	118.0	5.1	102.0
Arsenic	20	10	9.2	92.0	8.9	89.0
Barium	400	200	anr			
Beryllium	10	5.0	anr			
Cadmium	10	5.0	5.4	108.0	5.3	106.0
Calcium	2000	1000	1120	112.0	1100	110.0
Chromium	20	10	11.2	112.0	10.8	108.0
Cobalt	100	50	anr			
Copper	50	25	anr			
Iron	600	300	341	113.7	357	119.0
Lead	10	5.0	anr			
Magnesium	10000	5000	5020	100.4	5110	102.2
Manganese	30	15	anr			
Molybdenum	100	50				
Nickel	80	40	anr			
Potassium	20000	10000	9870	98.7	9970	99.7
Selenium	20	10	9.8	98.0	10.2	102.0
Silver	20	10	anr			
Sodium	20000	10000	9870	98.7	10000	100.0
Strontium	20	10				
Thallium	20	10	anr			
Tin	100	50				
Titanium	20	10				
Vanadium	100	50	anr			
Zinc	40	20	anr			

(*) Outside of QC limits
(anr) Analyte not requested

INTERFERING ELEMENT CHECK STANDARDS SUMMARY
Part 1 - ICSA and ICSAB Standards

Login Number: FA6957
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA080613M1.ICP Date Analyzed: 08/06/13 Methods: SW846 6010C
QC Limits: 80 to 120 % Recovery Run ID: MA10953 Units: ug/l

Time:			09:06		09:13		13:15		13:20	
Sample ID:	ICSA	ICSAB	ICSA1		ICSAB1		ICSA2		ICSAB2	
Metal	True	True	Results	% Rec	Results	% Rec	Results	% Rec	Results	% Rec
Aluminum	500000	500000	512000	102.4	518000	103.6	521000	104.2	522000	104.4
Antimony		1000	0.0		1010	101.0	2.4		1020	102.0
Arsenic		1000	0.0		1010	101.0	-0.10		1030	103.0
Barium		500	0.0		519	103.8	0.20		528	105.6
Beryllium		500	-0.10		502	100.4	-0.20		504	100.8
Cadmium		1000	0.0		903	90.3	0.10		915	91.5
Calcium	500000	500000	479000	95.8	483000	96.6	489000	97.8	489000	97.8
Chromium		500	0.70		484	96.8	0.60		488	97.6
Cobalt		500	1.4		458	91.6	1.3		464	92.8
Copper		500	0.0		526	105.2	0.20		534	106.8
Iron	200000	200000	189000	94.5	191000	95.5	192000	96.0	193000	96.5
Lead		1000	0.10		938	93.8	-1.1		949	94.9
Magnesium	500000	500000	512000	102.4	520000	104.0	520000	104.0	524000	104.8
Manganese		500	-0.10		482	96.4	0.90		488	97.6
Molybdenum		1000	0.50		923	92.3	-0.10		939	93.9
Nickel		1000	-0.70		893	89.3	-0.50		903	90.3
Potassium			-31		-19		100		51.7	
Selenium		1000	0.10		962	96.2	3.4		977	97.7
Silver		1000	0.80		1010	101.0	0.60		1030	103.0
Sodium			79.5		81.9		267		237	
Strontium		1000	12.1		1030	103.0	12.3		1040	104.0
Thallium		1000	0.90		937	93.7	2.6		954	95.4
Tin		1000	3.6		905	90.5	5.1		920	92.0
Titanium		1000	-2.0		962	96.2	-2.0		976	97.6
Vanadium		500	0.20		478	95.6	0.40		481	96.2
Zinc		1000	-0.70		911	91.1	5.6		942	94.2

(*) Outside of QC limits
(anr) Analyte not requested

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA6957
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA080713M1.ICP Date Analyzed: 08/07/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10956
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
07:56	MA10956-STD1	1		STDA
08:00	MA10956-STD2	1		STDB
08:03	MA10956-STD3	1		STDC
08:07	MA10956-STD4	1		STDD
08:18	MA10956-HSTD1	1		
08:24	MA10956-ICV1	1		
08:33	MA10956-ICB1	1		
08:37	MA10956-CRIA1	1		
08:48	MA10956-ICSA1	1		
08:54	MA10956-ICSAB1	1		
09:01	MA10956-CCV1	1		
09:08	MA10956-CCB1	1		
09:22	MP25623-MB1	1		
09:27	MP25623-B1	1		
09:31	FA7020-1	1		(sample used for QC only; not part of login FA6957)
09:35	MP25623-D1	1		
09:40	MP25623-SD1	5		
09:44	MP25623-PS1	1		
09:49	MP25623-S1	1		
09:53	MP25623-S2	1		
09:57	MA10956-CCV2	1		
10:01	MA10956-CCB2	1		
10:06	ZZZZZZ	1		
10:10	ZZZZZZ	1		
10:15	ZZZZZZ	1		
10:19	ZZZZZZ	1		
10:24	ZZZZZZ	1		
10:28	ZZZZZZ	1		
10:33	ZZZZZZ	1		
10:37	ZZZZZZ	1		
10:42	ZZZZZZ	1		
10:47	ZZZZZZ	1		
10:52	MA10956-CCV3	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA6957
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA080713M1.ICP Date Analyzed: 08/07/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10956
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
10:56	MA10956-CCB3	1		
11:01	ZZZZZZ	1		
11:06	ZZZZZZ	1		
11:11	ZZZZZZ	1		
11:15	ZZZZZZ	1		
11:20	ZZZZZZ	1		
11:25	MP25623-MB2	1		
11:30	ZZZZZZ	5		
11:34	ZZZZZZ	10		
11:39	ZZZZZZ	5		
11:43	ZZZZZZ	20		
11:48	MA10956-CCV4	1		
11:52	MA10956-CCB4	1		
11:57	ZZZZZZ	5		
12:01	ZZZZZZ	10		
12:06	ZZZZZZ	20		
12:10	ZZZZZZ	5		
12:14	ZZZZZZ	5		
12:19	ZZZZZZ	20		
12:23	FA6957-1	10		
---------->	Last reportable sample/prep for job FA6957			
12:28	ZZZZZZ	1		
12:32	MP25624-MB1	1		
12:37	MP25624-B1	1		
12:41	MA10956-CCV5	1		
12:45	MA10956-CCB5	1		
12:50	FA6918-1L	1		(sample used for QC only; not part of login FA6957)
12:54	MP25624-D1	1		
12:59	MP25624-SD1	5		
13:04	MP25624-S1	1		
13:08	MP25624-S2	1		
13:13	ZZZZZZ	1		
13:17	ZZZZZZ	1		
13:22	MP25624-D2	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA6957
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA080713M1.ICP Date Analyzed: 08/07/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10956
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
13:26	MP25624-MB2	1		
13:31	MP25624-B2	1		
13:36	MA10956-CCV6	1		
13:40	MA10956-CCB6	1		
13:44	MP25624-MB3	1		
13:49	MP25624-B3	1		
13:53	MA10956-CRIA2	1		
13:58	MA10956-ICSA2	1		
14:03	MA10956-ICSAB2	1		
14:07	MA10956-CCV7	1		
14:11	MA10956-CCB7	1		

----------> Last reportable CCB for job FA6957
Refer to raw data for calibration curve and standards.

INTERNAL STANDARD SUMMARY

Login Number: FA6957
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA080713M1.ICP Date Analyzed: 08/07/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10956
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
07:56	MA10956-STD1	1366	14920	4269	779
08:00	MA10956-STD2	1342	14796	4183	747
08:03	MA10956-STD3	1291	14384	4115	691
08:07	MA10956-STD4	1259	14111	4099	650
08:18	MA10956-HSTD1	1270	14263	4104	652
08:24	MA10956-ICV1	1320	14570	4178	701
08:33	MA10956-ICB1	1385 R	15157 R	4246 R	786 R
08:37	MA10956-CRIA1	1370	15014	4257	772
08:48	MA10956-ICSA1	1220	13293	3868	612
08:54	MA10956-ICSAB1	1225	13390	3905	608
09:01	MA10956-CCV1	1340	14808	4176	709
09:08	MA10956-CCB1	1373	15103	4209	777
09:22	MP25623-MB1	1352	15142	4159	774
09:27	MP25623-B1	1330	14725	4163	729
09:31	FA7020-1	1328	14794	4195	751
09:35	MP25623-D1	1336	14841	4191	756
09:40	MP25623-SD1	1380	15235	4280	782
09:44	MP25623-PS1	1323	14657	4190	743
09:49	MP25623-S1	1314	14535	4092	713
09:53	MP25623-S2	1311	14558	4095	715
09:57	MA10956-CCV2	1327	14653	4217	706
10:01	MA10956-CCB2	1389	15099	4272	786
10:06	ZZZZZZ	1325	14759	4199	757
10:10	ZZZZZZ	1356	15182	4264	762
10:15	ZZZZZZ	1382	15367	4285	777
10:19	ZZZZZZ	1355	15114	4233	774
10:24	ZZZZZZ	1288	14505	4137	725
10:28	ZZZZZZ	1360	15253	4227	775
10:33	ZZZZZZ	1338	14994	4235	738
10:37	ZZZZZZ	1135	12816	3857	565
10:42	ZZZZZZ	1148	13090	3891	557
10:47	ZZZZZZ	1114	12419	3891	546
10:52	MA10956-CCV3	1334	14814	4189	703

INTERNAL STANDARD SUMMARY

Login Number: FA6957
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA080713M1.ICP Date Analyzed: 08/07/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10956
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
10:56	MA10956-CCB3	1390	15264	4223	784
11:01	ZZZZZZ	1177	13480	3977	614
11:06	ZZZZZZ	1134	12894	3870	574
11:11	ZZZZZZ	1125	12798	3824	566
11:15	ZZZZZZ	1112	12529	3876	547
11:20	ZZZZZZ	1159	13400	3950	608
11:25	MP25623-MB2	1358	15383	4185	777
11:30	ZZZZZZ	1421	15754	4468	642
11:34	ZZZZZZ	1326	14768	4230	704
11:39	ZZZZZZ	1513	16844	4718	738
11:43	ZZZZZZ	1683	18254	5049	783
11:48	MA10956-CCV4	1335	14617	4177	703
11:52	MA10956-CCB4	1406	15306	4279	788
11:57	ZZZZZZ	1612	17576	4917	759
12:01	ZZZZZZ	1833	19867	5583	781
12:06	ZZZZZZ	1583	17184	4813	785
12:10	ZZZZZZ	1768	19085	5402	749
12:14	ZZZZZZ	1807	19585	5519	762
12:19	ZZZZZZ	1591	17280	4849	786
12:23	FA6957-1	1423	15571	4377	708
12:28	ZZZZZZ	1489	16351	4455	746
12:32	MP25624-MB1	1399	15603	4307	790
12:37	MP25624-B1	1356	15002	4227	735
12:41	MA10956-CCV5	1337	14867	4219	705
12:45	MA10956-CCB5	1400	15262	4295	789
12:50	FA6918-1L	1330	14729	4276	727
12:54	MP25624-D1	1334	14779	4271	730
12:59	MP25624-SD1	1376	15176	4302	769
13:04	MP25624-S1	1313	14669	4213	693
13:08	MP25624-S2	1308	14591	4157	688
13:13	ZZZZZZ	1324	14745	4250	724
13:17	ZZZZZZ	1360	15254	4262	769
13:22	MP25624-D2	1322	14699	4212	718

INTERNAL STANDARD SUMMARY

Login Number: FA6957
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA080713M1.ICP Date Analyzed: 08/07/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10956
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
13:26	MP25624-MB2	1319	14685	4228	721
13:31	MP25624-B2	1310	14660	4191	691
13:36	MA10956-CCV6	1328	14794	4169	697
13:40	MA10956-CCB6	1390	15289	4246	781
13:44	MP25624-MB3	1379	15370	4265	780
13:49	MP25624-B3	1333	14876	4217	726
13:53	MA10956-CRIA2	1374	15109	4293	766
13:58	MA10956-ICSA2	1208	13406	3886	608
14:03	MA10956-ICSAB2	1206	13451	3864	604
14:07	MA10956-CCV7	1325	14734	4183	698
14:11	MA10956-CCB7	1388	15295	4262	779

R = Reference for ISTD limits. ! = Outside limits.

LEGEND:

Istd#	Parameter	Limits
Istd#1	Yttrium (2243)	60-125 %
Istd#2	Yttrium (3600)	60-125 %
Istd#3	Yttrium (3710)	60-125 %
Istd#4	Indium	60-125 %

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: FA6957
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA080713M1.ICP Date Analyzed: 08/07/13 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA10956 Units: ug/l

Time:			08:33		09:08		10:01		10:56	
Sample ID:			ICB1		CCB1		CCB2		CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	15	4.3	<200	16.0	<200	9.0	<200	6.3	<200
Antimony	6.0	1.3	0.0	<6.0	-0.10	<6.0	0.40	<6.0	0.20	<6.0
Arsenic	10	1.6	0.0	<10	1.6	<10	1.2	<10	1.2	<10
Barium	200	1	anr							
Beryllium	4.0	.5	anr							
Cadmium	5.0	.5	0.10	<5.0	0.10	<5.0	0.10	<5.0	0.10	<5.0
Calcium	1000	50	4.3	<1000	19.9	<1000	7.2	<1000	27.8	<1000
Chromium	10	1.8	0.20	<10	0.20	<10	0.10	<10	0.30	<10
Cobalt	50	.5	anr							
Copper	25	1	anr							
Iron	300	29	0.70	<300	11.9	<300	12.8	<300	8.8	<300
Lead	5.0	1.1	anr							
Magnesium	5000	74	17.3	<5000	1.2	<5000	11.0	<5000	-9.5	<5000
Manganese	15	.7	anr							
Molybdenum	50	.6								
Nickel	40	.5	anr							
Potassium	10000	200	11.3	<10000	-10	<10000	21.0	<10000	56.8	<10000
Selenium	10	2	1.0	<10	0.10	<10	2.0	<10	0.10	<10
Silver	10	.5	anr							
Sodium	10000	500	3.2	<10000	2.9	<10000	3.2	<10000	106	<10000
Strontium	10	.5								
Thallium	10	1.3	anr							
Tin	50	.7								
Titanium	10	.9								
Vanadium	50	.5	anr							
Zinc	20	3	anr							

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: FA6957
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA080713M1.ICP Date Analyzed: 08/07/13 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA10956 Units: ug/l

Time: / Sample ID:			11:52 CCB4		12:45 CCB5		13:40 CCB6		14:11 CCB7	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	15	4.1	<200	6.6	<200	5.9	<200	21.0	<200
Antimony	6.0	1.3	0.30	<6.0	1.1	<6.0	0.10	<6.0	-0.80	<6.0
Arsenic	10	1.6	0.50	<10	1.6	<10	1.7	<10	1.8	<10
Barium	200	1	anr							
Beryllium	4.0	.5	anr							
Cadmium	5.0	.5	0.20	<5.0	0.10	<5.0	0.20	<5.0	0.20	<5.0
Calcium	1000	50	9.8	<1000	14.9	<1000	10.6	<1000	25.8	<1000
Chromium	10	1.8	-0.10	<10	-0.50	<10	0.0	<10	-0.10	<10
Cobalt	50	.5	anr							
Copper	25	1	anr							
Iron	300	29	7.1	<300	12.9	<300	10.4	<300	24.8	<300
Lead	5.0	1.1	anr							
Magnesium	5000	74	9.0	<5000	14.3	<5000	-19	<5000	42.1	<5000
Manganese	15	.7	anr							
Molybdenum	50	.6								
Nickel	40	.5	anr							
Potassium	10000	200	53.8	<10000	8.9	<10000	26.5	<10000	4.9	<10000
Selenium	10	2	-0.80	<10	-1.0	<10	-0.60	<10	1.4	<10
Silver	10	.5	anr							
Sodium	10000	500	30.0	<10000	26.0	<10000	37.9	<10000	23.9	<10000
Strontium	10	.5								
Thallium	10	1.3	anr							
Tin	50	.7								
Titanium	10	.9								
Vanadium	50	.5	anr							
Zinc	20	3	anr							

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA6957
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA080713M1.ICP Date Analyzed: 08/07/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA10956 Units: ug/l

Time:		08:24			09:01			09:57	
Sample ID:	ICV	ICV1		CCV	CCV1		CCV	CCV2	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	40300	100.8	40000	39200	98.0	40000	38600	96.5
Antimony	2000	2020	101.0	2000	1960	98.0	2000	1990	99.5
Arsenic	2000	2020	101.0	2000	1960	98.0	2000	1980	99.0
Barium	anr								
Beryllium	anr								
Cadmium	2000	2020	101.0	2000	2020	101.0	2000	2030	101.5
Calcium	40000	41800	104.5	40000	41200	103.0	40000	40500	101.3
Chromium	2000	2050	102.5	2000	2020	101.0	2000	2020	101.0
Cobalt	anr								
Copper	anr								
Iron	40000	41400	103.5	40000	41200	103.0	40000	40300	100.8
Lead	anr								
Magnesium	40000	40100	100.3	40000	39700	99.3	40000	39200	98.0
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium	40000	40800	102.0	40000	38700	96.8	40000	38500	96.3
Selenium	2000	2030	101.5	2000	1950	97.5	2000	1990	99.5
Silver	anr								
Sodium	40000	40600	101.5	40000	38400	96.0	40000	38500	96.3
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium	anr								
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA6957
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA080713M1.ICP Date Analyzed: 08/07/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA10956 Units: ug/l

Time:		10:52			11:48			12:41	
Sample ID:	CCV	CCV3		CCV	CCV4		CCV	CCV5	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	39100	97.8	40000	39000	97.5	40000	38600	96.5
Antimony	2000	1980	99.0	2000	1980	99.0	2000	1970	98.5
Arsenic	2000	1980	99.0	2000	1980	99.0	2000	1970	98.5
Barium	anr								
Beryllium	anr								
Cadmium	2000	2020	101.0	2000	2030	101.5	2000	2010	100.5
Calcium	40000	40700	101.8	40000	40900	102.3	40000	40400	101.0
Chromium	2000	1990	99.5	2000	2030	101.5	2000	1980	99.0
Cobalt	anr								
Copper	anr								
Iron	40000	41200	103.0	40000	41000	102.5	40000	40500	101.3
Lead	anr								
Magnesium	40000	39600	99.0	40000	39700	99.3	40000	39100	97.8
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium	40000	38800	97.0	40000	38700	96.8	40000	38400	96.0
Selenium	2000	1980	99.0	2000	1990	99.5	2000	1980	99.0
Silver	anr								
Sodium	40000	38900	97.3	40000	38700	96.8	40000	38300	95.8
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium	anr								
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA6957
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA080713M1.ICP Date Analyzed: 08/07/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA10956 Units: ug/l

Time:		13:36			14:07	
Sample ID:	CCV	CCV6		CCV	CCV7	
Metal	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	39300	98.3	40000	38900	97.3
Antimony	2000	1970	98.5	2000	1980	99.0
Arsenic	2000	1980	99.0	2000	1980	99.0
Barium	anr					
Beryllium	anr					
Cadmium	2000	2010	100.5	2000	2010	100.5
Calcium	40000	40400	101.0	40000	40300	100.8
Chromium	2000	1990	99.5	2000	1990	99.5
Cobalt	anr					
Copper	anr					
Iron	40000	41200	103.0	40000	40900	102.3
Lead	anr					
Magnesium	40000	39700	99.3	40000	39300	98.3
Manganese	anr					
Molybdenum						
Nickel	anr					
Potassium	40000	39100	97.8	40000	38800	97.0
Selenium	2000	1970	98.5	2000	1980	99.0
Silver	anr					
Sodium	40000	39000	97.5	40000	38600	96.5
Strontium						
Thallium	anr					
Tin						
Titanium						
Vanadium	anr					
Zinc	anr					

(*) Outside of QC limits
(anr) Analyte not requested

HIGH STANDARD CHECK SUMMARY

Login Number: FA6957
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA080713M1.ICP Date Analyzed: 08/07/13 Methods: SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA10956 Units: ug/l

Time:		08:18	
Sample ID:	HSTD	HSTD1	
Metal	True	Results	% Rec
Aluminum	80000	80300	100.4
Antimony	4000	3980	99.5
Arsenic	4000	4000	100.0
Barium	anr		
Beryllium	anr		
Cadmium	4000	3950	98.8
Calcium	80000	81000	101.3
Chromium	4000	3960	99.0
Cobalt	anr		
Copper	anr		
Iron	80000	80200	100.3
Lead	anr		
Magnesium	80000	81000	101.3
Manganese	anr		
Molybdenum			
Nickel	anr		
Potassium	80000	80100	100.1
Selenium	4000	3960	99.0
Silver	anr		
Sodium	80000	79700	99.6
Strontium			
Thallium	anr		
Tin			
Titanium			
Vanadium	anr		
Zinc	anr		

(*) Outside of QC limits
(anr) Analyte not requested

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: FA6957
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA080713M1.ICP Date Analyzed: 08/07/13 Methods: SW846 6010C
QC Limits: CRI 70-130% CRIA 70-130% Run ID: MA10956 Units: ug/l

Time:			08:37		13:53	
Sample ID:	CRI	CRIA	CRIA1		CRIA2	
Metal	True	True	Results	% Rec	Results	% Rec
Aluminum	400	200	208	104.0	210	105.0
Antimony	10	5.0	4.6	92.0	5.6	112.0
Arsenic	20	10	11.6	116.0	10.1	101.0
Barium	400	200	anr			
Beryllium	10	5.0	anr			
Cadmium	10	5.0	5.2	104.0	5.3	106.0
Calcium	2000	1000	1060	106.0	1060	106.0
Chromium	20	10	9.9	99.0	10.0	100.0
Cobalt	100	50	anr			
Copper	50	25	anr			
Iron	600	300	311	103.7	321	107.0
Lead	10	5.0	anr			
Magnesium	10000	5000	4860	97.2	4790	95.8
Manganese	30	15	anr			
Molybdenum	100	50				
Nickel	80	40	anr			
Potassium	20000	10000	9560	95.6	9430	94.3
Selenium	20	10	10.0	100.0	11.5	115.0
Silver	20	10	anr			
Sodium	20000	10000	9530	95.3	9430	94.3
Strontium	20	10				
Thallium	20	10	anr			
Tin	100	50				
Titanium	20	10				
Vanadium	100	50	anr			
Zinc	40	20	anr			

(*) Outside of QC limits
(anr) Analyte not requested

INTERFERING ELEMENT CHECK STANDARDS SUMMARY
Part 1 - ICSA and ICSAB Standards

Login Number: FA6957
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA080713M1.ICP Date Analyzed: 08/07/13 Methods: SW846 6010C
QC Limits: 80 to 120 % Recovery Run ID: MA10956 Units: ug/l

Time:			08:48		08:54		13:58		14:03	
Sample ID:	ICSA	ICSAB	ICSA1		ICSAB1		ICSA2		ICSAB2	
Metal	True	True	Results	% Rec	Results	% Rec	Results	% Rec	Results	% Rec
Aluminum	500000	500000	526000	105.2	521000	104.2	526000	105.2	524000	104.8
Antimony		1000	-0.80		1000	100.0	1.0		1010	101.0
Arsenic		1000	0.60		998	99.8	5.4		1020	102.0
Barium		500	-0.20		522	104.4	-0.10		529	105.8
Beryllium		500	-0.20		504	100.8	-0.10		506	101.2
Cadmium		1000	0.10		903	90.3	0.40		907	90.7
Calcium	500000	500000	515000	103.0	518000	103.6	513000	102.6	511000	102.2
Chromium		500	0.0		466	93.2	0.80		455	91.0
Cobalt		500	1.5		456	91.2	1.5		460	92.0
Copper		500	0.0		534	106.8	1.0		527	105.4
Iron	200000	200000	194000	97.0	195000	97.5	193000	96.5	196000	98.0
Lead		1000	0.0		941	94.1	-1.0		938	93.8
Magnesium	500000	500000	525000	105.0	529000	105.8	520000	104.0	529000	105.8
Manganese		500	-0.30		482	96.4	-0.30		478	95.6
Molybdenum		1000	0.0		925	92.5	-0.10		934	93.4
Nickel		1000	0.20		892	89.2	0.20		898	89.8
Potassium			3.4		-13		32.4		32.6	
Selenium		1000	1.8		948	94.8	-5.7		961	96.1
Silver		1000	0.20		978	97.8	0.20		976	97.6
Sodium			79.4		85.7		110		114	
Strontium		1000	12.1		1030	103.0	11.9		1020	102.0
Thallium		1000	0.0		936	93.6	4.0		935	93.5
Tin		1000	5.5		918	91.8	5.5		928	92.8
Titanium		1000	-0.40		973	97.3	-0.60		970	97.0
Vanadium		500	0.60		474	94.8	0.90		468	93.6
Zinc		1000	-0.90		912	91.2	0.0		917	91.7

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: FA6957
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

QC Batch ID: MP25618
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date:				08/06/13		08/06/13	
Metal	RL	IDL	MDL	MB raw	final	MB raw	final
Aluminum	200	15	15	29.6	<200	80.7	<200
Antimony	6.0	1.3	1.3	-1.2	<6.0	-0.30	<6.0
Arsenic	10	1.6	2.5	-2.5	<10	-3.1	<10
Barium	200	1	1				
Beryllium	4.0	.5	.5				
Cadmium	5.0	.5	.5	0.0	<5.0	0.0	<5.0
Calcium	1000	50	50	7.9	<1000	54.9	<1000
Chromium	10	1.8	2	-0.20	<10	-0.20	<10
Cobalt	50	.5	.5				
Copper	25	1	1				
Iron	300	29	29	45.6	<300	138	<300
Lead	5.0	1.1	1.1				
Magnesium	5000	74	74	34.7	<5000	72.1	<5000
Manganese	15	.7	.7				
Molybdenum	50	.6	1				
Nickel	40	.5	.5				
Potassium	10000	200	200	-21	<10000	212	<10000
Selenium	10	2	2	-0.80	<10	1.0	<10
Silver	10	.5	.5				
Sodium	10000	500	500	-24	<10000	335	<10000
Strontium	10	.5	.5				
Thallium	10	1.3	1.3				
Tin	50	.7	1.8				
Titanium	10	.9	1				
Vanadium	50	.5	1				
Zinc	20	3	5				

Associated samples MP25618: FA6957-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FA6957
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

QC Batch ID: MP25618
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date:			08/06/13					08/06/13	
Metal	FA6960-1 Original	DUP	RPD	QC Limits	FA6960-1 Original	MS	Spikelot MPFLICP2	% Rec	QC Limits
Aluminum	239	220	8.3	0-20	239	28600	27000	105.0	80-120
Antimony	0.0	0.0	NC	0-20	0.0	508	500	101.6	80-120
Arsenic	0.0	0.0	NC	0-20	0.0	2090	2000	104.5	80-120
Barium	anr								
Beryllium	anr								
Cadmium	0.0	0.0	NC	0-20	0.0	48.4	50	96.8	80-120
Calcium	61500	61200	0.5	0-20	61500	85400	25000	95.6	80-120
Chromium	10.8	10.9	0.9	0-20	10.8	221	200	105.1	80-120
Cobalt									
Copper	anr								
Iron	9490	9380	1.2	0-20	9490	37000	26000	105.8	80-120
Lead	anr								
Magnesium	6430	6400	0.5	0-20	6430	31200	25000	99.1	80-120
Manganese									
Molybdenum									
Nickel	anr								
Potassium	32800	32200	1.8	0-20	32800	59200	25000	105.6	80-120
Selenium	4.8	3.0	46.2 (a)	0-20	4.8	1250	2000	62.3N(c)	80-120
Silver	anr								
Sodium	356000	351000(b	1.4	0-20	356000	371000(b	25000	60.0 (d)	80-120
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium									
Zinc	anr								

Associated samples MP25618: FA6957-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) RPD acceptable due to low duplicate and sample concentrations.
(b) Above linear range. For QC purposes only.
(c) Spike recovery indicates possible matrix interference.
(d) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FA6957
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

QC Batch ID: MP25618 Methods: SW846 6010C
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 08/06/13

Metal	FA6960-1 Original	MSD	Spikelot MPFLICP2	% Rec	MSD RPD	QC Limit
Aluminum	239	28400	27000	104.3	0.7	20
Antimony	0.0	506	500	101.2	0.4	20
Arsenic	0.0	2090	2000	104.5	0.0	20
Barium	anr					
Beryllium	anr					
Cadmium	0.0	48.2	50	96.4	0.4	20
Calcium	61500	83900	25000	89.6	1.8	20
Chromium	10.8	220	200	104.6	0.5	20
Cobalt						
Copper	anr					
Iron	9490	36500	26000	103.9	1.4	20
Lead	anr					
Magnesium	6430	30900	25000	97.9	1.0	20
Manganese						
Molybdenum						
Nickel	anr					
Potassium	32800	58400	25000	102.4	1.4	20
Selenium	4.8	1230	2000	61.3N(a)	1.6	20
Silver	anr					
Sodium	356000	367000(b	25000	44.0 (c)	1.1	20
Strontium						
Thallium	anr					
Tin						
Titanium						
Vanadium						
Zinc	anr					

Associated samples MP25618: FA6957-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) Spike recovery indicates possible matrix interference.
(b) Above linear range. For QC purposes only.
(c) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: FA6957
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

QC Batch ID: MP25618
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 08/06/13

Metal	BSP Result	Spikelot MPFLICP2	% Rec	QC Limits
Aluminum	27300	27000	101.1	80-120
Antimony	483	500	96.6	80-120
Arsenic	1930	2000	96.5	80-120
Barium	anr			
Beryllium	anr			
Cadmium	48.6	50	97.2	80-120
Calcium	25500	25000	102.0	80-120
Chromium	210	200	105.0	80-120
Cobalt				
Copper	anr			
Iron	27800	26000	106.9	80-120
Lead	anr			
Magnesium	24700	25000	98.8	80-120
Manganese				
Molybdenum				
Nickel	anr			
Potassium	25000	25000	100.0	80-120
Selenium	1900	2000	95.0	80-120
Silver	anr			
Sodium	24600	25000	98.4	80-120
Strontium				
Thallium	anr			
Tin				
Titanium				
Vanadium				
Zinc	anr			

Associated samples MP25618: FA6957-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: FA6957
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

QC Batch ID: MP25618
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 08/06/13

Metal	FA6960-1 Original	SDL 1:5	%DIF	QC Limits
Aluminum	239	208	12.7 (a)	0-10
Antimony	0.00	0.00	NC	0-10
Arsenic	0.00	0.00	NC	0-10
Barium	anr			
Beryllium	anr			
Cadmium	0.00	0.00	NC	0-10
Calcium	61500	65200	6.0	0-10
Chromium	10.8	10.9	0.9	0-10
Cobalt				
Copper	anr			
Iron	9490	10000	5.5	0-10
Lead	anr			
Magnesium	6430	6710	4.4	0-10
Manganese				
Molybdenum				
Nickel	anr			
Potassium	32800	32800	0.0	0-10
Selenium	4.80	0.00	100.0(a)	0-10
Silver	anr			
Sodium	356000	381000	6.9	0-10
Strontium				
Thallium	anr			
Tin				
Titanium				
Vanadium				
Zinc	anr			

Associated samples MP25618: FA6957-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

POST DIGESTATE SPIKE SUMMARY

Login Number: FA6957
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

QC Batch ID: MP25618
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 08/06/13

Metal	Sample ml	Final ml	FA6960-1 Raw	Corr.**	PS ug/l	Spike ml	Spike ug/ml	Spike ug/l	% Rec	QC Limits
Aluminum	9.8	10	238.7	233.926	2757	0.2	125	2500	100.9	80-120
Antimony	9.8	10			102.7	0.2	5	100	102.7	80-120
Arsenic	9.8	10			107.7	0.2	5	100	107.7	80-120
Barium										
Beryllium										
Cadmium	9.8	10			51	0.2	2.5	50	102.0	80-120
Calcium	9.8	10	61520	60289.6	66520	0.2	250	5000	124.6*(a	80-120
Chromium	9.8	10	10.8	10.584	64.4	0.2	2.5	50	107.6	80-120
Cobalt										
Copper										
Iron	9.8	10	9489	9299.22	12510	.2	150	3000	107.0	80-120
Lead										
Magnesium	9.8	10	6433	6304.34	11250	0.2	250	5000	98.9	80-120
Manganese										
Molybdenum										
Nickel										
Potassium	9.8	10	32800	32144	42880	0.2	500	10000	107.4	80-120
Selenium	9.8	10	4.8	4.704	108.9	0.2	5	100	104.2	80-120
Silver										
Sodium	9.8	10	356000	348880	355800	0.2	500	10000	69.2*(a)	80-120
Strontium										
Thallium										
Tin										
Titanium										
Vanadium										
Zinc										

Associated samples MP25618: FA6957-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(**) Corr. sample result = Raw * (sample volume / final volume)
(anr) Analyte not requested
(a) Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

Southeast ACCUTEST LABORATORIES

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries
- Instrument Runlogs/QC

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: FA6957
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Alkalinity, Total as CaCO3	GN57110	5.0	1.3	mg/l	250	251	100.0	90-113%
Chloride	GP22231/GN57122	2.0	0.0	mg/l	50	51.2	102.4	90-110%
Fluoride	GP22283/GN57234	0.20	0.0	mg/l	2.5	2.57	102.8	90-110%
Nitrogen, Nitrate	GP22231/GN57122	0.10	0.0	mg/l	2.5	2.64	105.6	90-110%
Phosphate, Ortho	GP22221/GN57112	0.10	0.0	mg/l	.300	323	108.0	83-116%
Phosphorus, Total	GP22232/GN57130	0.10	0.0	mg/l	.300	0.29	97.1	81-118%
Solids, Total Dissolved	GN57180	100	17.0	mg/l				
Sulfate	GP22231/GN57122	2.0	0.0	mg/l	50	51.4	102.8	90-110%

Associated Samples:
Batch GN57110: FA6957-1
Batch GN57180: FA6957-1
Batch GP22221: FA6957-1F
Batch GP22231: FA6957-1
Batch GP22232: FA6957-1
Batch GP22283: FA6957-1
(*) Outside of QC limits

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: FA6957
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Alkalinity, Total as CaCO3	GN57110	FA6919-6	mg/l	11.5	11.7	1.7	0-20%
Solids, Total Dissolved	GN57180	FA7021-5	mg/l	86.0	89.0	3.4	0-5%
Specific Conductivity	GN57114	FA6957-1	umhos/cm	12200	12100	0.7	0-10%
pH	GN57113	FA6957-1	su	2.45	2.45	0.0	0-10%

Associated Samples:
Batch GN57110: FA6957-1
Batch GN57113: FA6957-1
Batch GN57114: FA6957-1
Batch GN57180: FA6957-1
(*) Outside of QC limits

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: FA6957
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Chloride	GP22231/GN57122	FA6957-1	mg/l	143	50	211	136.0N(a)	90-110%
Fluoride	GP22283/GN57234	FA6957-1	mg/l	5350	2.5	3180	-86800.0(b)	90-110%
Nitrogen, Nitrate	GP22231/GN57122	FA6957-1	mg/l	7.2	2.5	9.4	88.0N(a)	90-110%
Phosphate, Ortho	GP22221/GN57112	FA6957-1F	mg/l	1450	3000	4860	114.0	83-116%
Phosphorus, Total	GP22232/GN57130	FA6957-1	mg/l	1730	3000	1810	2.7*(a)	81-118%
Sulfate	GP22231/GN57122	FA6957-1	mg/l	8450	50	8550	200.0(b)	90-110%

Associated Samples:
Batch GP22221: FA6957-1F
Batch GP22231: FA6957-1
Batch GP22232: FA6957-1
Batch GP22283: FA6957-1
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(a) Spike recovery indicates possible matrix interference.
(b) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

MATRIX SPIKE DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: FA6957
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MSD Result	RPD	QC Limit
Chloride	GP22231/GN57122	FA6957-1	mg/l	143	50	232	9.5	20%
Fluoride	GP22283/GN57234	FA6957-1	mg/l	5350	2.5	5230	48.8*(a)	20%
Nitrogen, Nitrate	GP22231/GN57122	FA6957-1	mg/l	7.2	2.5	9.3	1.1	20%
Phosphate, Ortho	GP22221/GN57112	FA6957-1F	mg/l	1450	3000	4960	2.2	26%
Phosphorus, Total	GP22232/GN57130	FA6957-1	mg/l	1730	3000	1790	1.2	22%
Sulfate	GP22231/GN57122	FA6957-1	mg/l	8450	50	8320	2.7	20%

Associated Samples:
Batch GP22221: FA6957-1F
Batch GP22231: FA6957-1
Batch GP22232: FA6957-1
Batch GP22283: FA6957-1
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(a) High RPD due to matrix interference.

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA6957
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: 313020801.TXT Date Analyzed: 08/02/13 Methods: EPA 300/SW846 9056A
Analyst: AA Run ID: GN57122
Parameters: Chloride,Nitrogen, Nitrate,Sulfate

Time	Sample Description	Dilution Factor	PS Recov	Comments
09:42	GN57122-CCV1	1		
09:58	GP22231-MB1	1		
10:14	GP22231-B1	1		
11:45	FA6957-1	100		
15:11	GP22231-S1	100		
15:27	GP22231-S2	100		
15:42	GN57122-CCV2	1		
16:01	GP22222-MB1	1		
16:17	GP22222-B1	1		
16:33	ZZZZZZ	5		
16:48	FA6918-2	1		(sample used for QC only; not part of login FA6957)
17:04	ZZZZZZ	1		
17:20	ZZZZZZ	2		
17:36	ZZZZZZ	5		
17:52	GP22222-S1	1		
18:08	GP22222-S2	1		
18:40	GN57122-CCV3	1		
18:56	GN57122-CCB1	1		

Refer to raw data for calibration curve and standards.

Instrument QC Summary
Inorganics Analyses

Login Number: FA6957
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: 313020801.TXT Date Analyzed: 08/02/13 Methods: EPA 300/SW846 9056A
Run ID: GN57122 Units: mg/l

Sample Number	Parameter	Result	RL	IDL/MDL	True Value	% Recov.	QC Limits
GN57122-CCV1	Chloride	51.0	2.0	0.80	50	102.0	90-110
GN57122-CCV1	Nitrogen, Nitrate	2.6	0.10	0.050	2.5	104.0	90-110
GN57122-CCV1	Sulfate	51.2	2.0	0.60	50	102.4	90-110
GN57122-CCV2	Chloride	50.9	2.0	0.80	50	101.8	90-110
GN57122-CCV2	Nitrogen, Nitrate	2.6	0.10	0.050	2.5	104.0	90-110
GN57122-CCV2	Sulfate	50.8	2.0	0.60	50	101.6	90-110
GN57122-CCV3	Chloride	50.9	2.0	0.80	50	101.8	90-110
GN57122-CCV3	Nitrogen, Nitrate	2.6	0.10	0.050	2.5	104.0	90-110
GN57122-CCV3	Sulfate	50.8	2.0	0.60	50	101.6	90-110
GN57122-CCB1	Chloride	0.80 U	2.0	0.80			
GN57122-CCB1	Nitrogen, Nitrate	0.050 U	0.10	0.050			
GN57122-CCB1	Sulfate	0.60 U	2.0	0.60			

(!) Outside of QC limits

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA6957
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: 213090801.TXT Date Analyzed: 08/09/13 Methods: EPA 300/SW846 9056A
Analyst: AA Run ID: GN57234
Parameters: Fluoride

Time	Sample Description	Dilution Factor	PS Recov	Comments
09:14	GN57234-CCV1	1		
09:31	GP22283-MB1	1		
09:48	GP22283-B1	1		
10:39	ZZZZZZ	1		
10:56	FA6957-1	2000		
11:12	GP22283-S1	2000		
11:29	GP22283-S2	2000		
12:10	ZZZZZZ	2000		
13:12	GN57234-CCV2	1		
13:29	GN57234-CCB1	1		

Refer to raw data for calibration curve and standards.

Instrument QC Summary
Inorganics Analyses

Login Number: FA6957
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: 213090801.TXT Date Analyzed: 08/09/13 Methods: EPA 300/SW846 9056A
Run ID: GN57234 Units: mg/l

Sample Number	Parameter	Result	RL	IDL/MDL	True Value	% Recov.	QC Limits
GN57234-CCV1	Fluoride	2.7	0.20	0.060	2.5	108.0	90-110
GN57234-CCV2	Fluoride	2.4	0.20	0.060	2.5	96.0	90-110
GN57234-CCB1	Fluoride	0.060 U	0.20	0.060			

(!) Outside of QC limits

Southeast
ACCUTEST LABORATORIES

08/22/13

Technical Report for

WSP Environment & Energy

Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID 36785.01

Accutest Job Number: FA7135

Sampling Date: 08/08/13

Report to:

WSP Environment & Energy
205 West Park Street
Jackson, MO 63755
tim.huff@wspgroup.com

ATTN: Tim Huff

Total number of pages in report: **67**

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Harry Behzadi, Ph.D.
Laboratory Director

Client Service contact: Andrea Colby 407-425-6700

Certifications: FL (E83510), LA (03051), KS (E-10327), IA (366), IL (200063), NC (573), NJ (FL002), SC (96038001) DoD ELAP (L-A-B L2229), CA (04226CA), TX (T104704404), AK, AR, GA, KY, MA, NV, OK, UT, VA, WA, WI

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Sample Summary

WSP Environment & Energy

Job No: FA7135

Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID
Project No: 36785.01

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA7135-1	08/08/13	11:15	TP	08/09/13	AQ	Ground Water	A-34-022
FA7135-1F	08/08/13	11:15	TP	08/09/13	AQ	Groundwater Filtered	A-34-022

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: WSP Environment & Energy **Job:** FA7135

Site: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID **Report Date:** 8/22/2013 10:28:22 AM

1 Sample was collected on 08/08/2013 and was received at Accutest SE on 08/09/2013 properly preserved, at 3.6 Deg. C and intact. The Sample received an Accutest job number of FA7135. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Metals By Method SW846 6010C

Matrix: AQ **Batch ID:** MP25658

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA7188-3DUP, FA7188-3MS, FA7188-3MSD, FA7188-3PS, FA7188-3SDL were used as the QC samples for metals.

Matrix Spike Recovery(s) for Calcium, Magnesium, Sodium are outside control limits. Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

Matrix Spike Recovery(s) for Calcium, Sodium are outside control limits. Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

RPD(s) for Duplicate for Aluminum, Antimony are outside control limits for sample MP25658-D1. RPD acceptable due to low duplicate and sample concentrations.

RPD(s) for Serial Dilution for Aluminum, Antimony are outside control limits for sample MP25658-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

FA7135-1 for Selenium: Elevated reporting limit(s) due to matrix interference.

FA7135-1 for Cadmium: Elevated reporting limit(s) due to matrix interference.

FA7135-1 for Chromium: Elevated reporting limit(s) due to matrix interference.

FA7135-1 for Calcium: Elevated reporting limit(s) due to matrix interference.

FA7135-1 for Antimony: Elevated reporting limit(s) due to matrix interference.

FA7135-1 for Arsenic: Elevated reporting limit(s) due to matrix interference.

Wet Chemistry By Method EPA 120.1

Matrix: AQ **Batch ID:** GN57219

All method blanks for this batch meet method specific criteria.

Sample(s) FA7135-1DUP was used as the QC sample for Specific Conductivity.

The following sample was run outside of holding time for method EPA 120.1: FA7135-1

Wet Chemistry By Method EPA 300/SW846 9056A

Matrix: AQ **Batch ID:** GP22283

All samples were prepped within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA6957-1MSD, FA6957-1MS were used as the QC samples for Fluoride.

Matrix Spike Recovery(s) for Fluoride are outside control limits. Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

RPD(s) for MSD for Fluoride are outside control limits for sample GP22283-S2. Probable cause is due to sample non-homogeneity.

Wet Chemistry By Method EPA 300/SW846 9056A

Matrix: AQ **Batch ID:** GP22284

All samples were prepped within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA7124-2MS, FA7124-2MSD were used as the QC samples for Chloride, Nitrogen, Nitrate, Sulfate.

FA7135-1 for Chloride: Dilution required due to matrix interference.

FA7135-1 for Nitrogen, Nitrate: Dilution required due to matrix interference.

Wet Chemistry By Method EPA 365.3

Matrix: AQ **Batch ID:** GP22271

All samples were prepped within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA7135-1FMS, FA7135-1FMSD were used as the QC samples for Phosphate, Ortho.

Matrix: AQ **Batch ID:** GP22326

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA7396-5MSD, FA7396-5MS were used as the QC samples for Phosphorus, Total.

GP22326-S1 for Phosphorus, Total: Spike recovery indicates possible matrix interference. Refer to lab control or spike blank for recovery information.

Wet Chemistry By Method SM 4500H B/SW 9040C

Matrix: AQ **Batch ID:** GN57220

Sample(s) FA7135-1DUP was used as the QC sample for pH.

FA7135-1 for pH: Field analysis required. Received out of hold time and analyzed by request.

Wet Chemistry By Method SM19 2320B

Matrix: AQ **Batch ID:** GN57280

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA7114-1DUP was used as the QC sample for Alkalinity, Total as CaCO3.

Wet Chemistry By Method SM19 2540C

Matrix: AQ **Batch ID:** GN57261

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA7174-1DUP was used as the QC sample for Solids, Total Dissolved.

Accutest Laboratories Southeast (ALSE) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALSE and as stated on the COC. ALSE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the ALSE Quality Manual except as noted above. This report is to be used in its entirety. ALSE is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

_____

Kim Benham, Client Services (signature on file)

Date: August 22, 2013

Summary of Hits

Job Number: FA7135
Account: WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID
Collected: 08/08/13

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA7135-1	**A-34-022**					
Aluminum		840	2.0	0.15	mg/l	SW846 6010C
Arsenic [a]		0.149	0.10	0.025	mg/l	SW846 6010C
Cadmium [a]		1.70	0.050	0.0050	mg/l	SW846 6010C
Calcium [a]		511	10	0.50	mg/l	SW846 6010C
Chromium [a]		1.25	0.10	0.020	mg/l	SW846 6010C
Iron		838	3.0	0.29	mg/l	SW846 6010C
Magnesium		564	50	0.74	mg/l	SW846 6010C
Potassium		245	100	2.0	mg/l	SW846 6010C
Sodium		432	100	5.0	mg/l	SW846 6010C
Chloride [b]		156 J	200	80	mg/l	EPA 300/SW846 9056A
Fluoride		4720	400	120	mg/l	EPA 300/SW846 9056A
Nitrogen, Nitrate [b]		5.8 J	10	5.0	mg/l	EPA 300/SW846 9056A
Phosphorus, Total		1570	500	140	mg/l	EPA 365.3
Solids, Total Dissolved		15900	1000	100	mg/l	SM19 2540C
Specific Conductivity [c]		12900	1.0	1.0	umhos/cm	EPA 120.1
Sulfate		8610	200	60	mg/l	EPA 300/SW846 9056A
pH [d]		2.54			su	SM 4500H B/SW 9040C
FA7135-1F	**A-34-022**					
Phosphate, Ortho		1500	500	95	mg/l	EPA 365.3

(a) Elevated reporting limit(s) due to matrix interference.
(b) Dilution required due to matrix interference.
(c) Sample analyzed beyond hold time.
(d) Field analysis required. Received out of hold time and analyzed by request.

Southeast ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: A-34-022
Lab Sample ID: FA7135-1
Matrix: AQ - Ground Water
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

Date Sampled: 08/08/13
Date Received: 08/09/13
Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	840	2.0	0.15	mg/l	10	08/13/13	08/14/13	LM	SW846 6010C [1]	SW846 3010A [2]
Antimony [a]	0.013 U	0.060	0.013	mg/l	10	08/13/13	08/14/13	LM	SW846 6010C [1]	SW846 3010A [2]
Arsenic [a]	0.149	0.10	0.025	mg/l	10	08/13/13	08/14/13	LM	SW846 6010C [1]	SW846 3010A [2]
Cadmium [a]	1.70	0.050	0.0050	mg/l	10	08/13/13	08/14/13	LM	SW846 6010C [1]	SW846 3010A [2]
Calcium [a]	511	10	0.50	mg/l	10	08/13/13	08/14/13	LM	SW846 6010C [1]	SW846 3010A [2]
Chromium [a]	1.25	0.10	0.020	mg/l	10	08/13/13	08/14/13	LM	SW846 6010C [1]	SW846 3010A [2]
Iron	838	3.0	0.29	mg/l	10	08/13/13	08/14/13	LM	SW846 6010C [1]	SW846 3010A [2]
Magnesium	564	50	0.74	mg/l	10	08/13/13	08/14/13	LM	SW846 6010C [1]	SW846 3010A [2]
Potassium	245	100	2.0	mg/l	10	08/13/13	08/14/13	LM	SW846 6010C [1]	SW846 3010A [2]
Selenium [a]	0.020 U	0.10	0.020	mg/l	10	08/13/13	08/14/13	LM	SW846 6010C [1]	SW846 3010A [2]
Sodium	432	100	5.0	mg/l	10	08/13/13	08/14/13	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10968
(2) Prep QC Batch: MP25658

(a) Elevated reporting limit(s) due to matrix interference.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: A-34-022
Lab Sample ID: FA7135-1
Matrix: AQ - Ground Water
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

Date Sampled: 08/08/13
Date Received: 08/09/13
Percent Solids: n/a

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Alkalinity, Bicarbonate as CaC	5.0 U	5.0	5.0	mg/l	1	08/14/13 11:10	AC	SM18 4500CO2D
Alkalinity, Carbonate	5.0 U	5.0	5.0	mg/l	1	08/14/13 11:10	AC	SM18 4500CO2D
Alkalinity, Total as CaCO3	0.60 U	5.0	0.60	mg/l	1	08/14/13 11:10	AC	SM19 2320B
Chloride [a]	156 J	200	80	mg/l	100	08/09/13 13:28	AA	EPA 300/SW846 9056A
Fluoride	4720	400	120	mg/l	2000	08/09/13 12:10	AA	EPA 300/SW846 9056A
Nitrogen, Nitrate [a]	5.8 J	10	5.0	mg/l	100	08/09/13 13:28	AA	EPA 300/SW846 9056A
Phosphorus, Total	1570	500	140	mg/l	5000	08/21/13 09:05	LE	EPA 365.3
Solids, Total Dissolved	15900	1000	100	mg/l	10	08/13/13 13:55	KC	SM19 2540C
Specific Conductivity [b]	12900	1.0	1.0	umhos/cm	1	08/09/13 13:10	AA	EPA 120.1
Sulfate	8610	200	60	mg/l	100	08/09/13 13:28	AA	EPA 300/SW846 9056A
pH [c]	2.54			su	1	08/09/13 13:20	AA	SM 4500H B/SW 9040C

(a) Dilution required due to matrix interference.
(b) Sample analyzed beyond hold time.
(c) Field analysis required. Received out of hold time and analyzed by request.

RL = Reporting Limit
MDL = Method Detection Limit
U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	A-34-022		
Lab Sample ID:	FA7135-1F	**Date Sampled:**	08/08/13
Matrix:	AQ - Groundwater Filtered	**Date Received:**	08/09/13
		Percent Solids:	n/a
Project:	Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Phosphate, Ortho	1500	500	95	mg/l	5000	08/09/13 13:00	LE	EPA 365.3

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Southeast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

Accutest Laboratories Southeast
Chain of Custody

ACCUTEST LABORATORIES

4405 Vineland Road, Suite C-15 Orlando, FL 32811
TEL. 407-425-6700 • FAX: 407-425-0707
www.accutest.com

Accutest JOB # FA7135 PAGE 1 OF 1

Accutest Quote # | SKIFF#

Client / Reporting Information

Company Name: WSP ENV + ENG
Address: 205 W. Park St
City: Jackson State: MO Zip: 63755
Project Contact: Tim Huff E-mail: Tim.Huff@WSPgroup.com
Phone#: 571-217-6759
Sampler(s) Name(s) (Printed): Tyson Pottle

Project Information

Project Name: AGRIUM
Street:
City: State:
Project #:
Fax #:
Client Purchase Order #:

Analytical Information

SEE ATTACHED

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL - Sludge
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe

Accutest Sample #	Field ID / Point of Collection	Collection DATE	Collection TIME	Sampled By	Matrix	Total # of Bottles	Container Information: Other	None	HCl	HNO3	H2SO4	NaOH/ZnAc	DI Water	NaOH	Analytical Information	LAB USE ONLY
1	A-34-022	080813	1115	TRP	GW	4		X			X	X			X	

TURNAROUND TIME (Business Days)

Approved By: / Rush Code

- [X] 10 Days Standard
- [ ] 7 Day RUSH
- [ ] 5 Day RUSH
- [ ] 3 Day EMERGENCY
- [ ] 2 Day EMERGENCY
- [ ] 1 Day EMERGENCY
- [ ] OTHER

Emergency or Rush T/A Data Available VIA Email or Lablink

Data Deliverable Information

- [ ] COMMERCIAL "A" (RESULTS ONLY)
- [ ] COMMERCIAL "B" (RESULTS PLUS QC)
- [ ] REDT1 (EPA LEVEL 3)
- [ ] FULT1 (EPA LEVEL 4)
- [ ] EDD'S

Comments / Remarks

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler: 1	Date Time: 080813 1315	Received By: 2 FX	Relinquished by: 3 FX	Date Time: 8-9-13	Received By: 4 J-COOPER (ALSE) 1030
Relinquished by: 5	Date Time:	Received By: 6	Relinquished by: 7	Date Time:	Received By: 8

Lab Use Only: Custody Seal in Place: Y N Temp Blank Provided: Y N Preserved where Applicable: Y N Total # of Coolers: 1 Cooler Temperature (s) Celsius: 3.6

FA7135: Chain of Custody
Page 1 of 2

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: FA 7135 CLIENT: WSP PROJECT: AGNIUM

DATE/TIME RECEIVED: 8-9-13 10:00 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 1

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 8017 3246 6876

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET
- [ ] WET ICE PRESENT

TRIP BLANK INFORMATION

- [ ] TRIP BLANK PROVIDED
- [X] TRIP BLANK NOT PROVIDED
- [X] TRIP BLANK NOT ON COC
- [ ] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [ ] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM _____ 5-GRAM _____

NUMBER OF 5035 FIELD KITS ? _____

NUMBER OF LAB FILTERED METALS ? _____

TEMPERATURE INFORMATION

- [ ] IR THERM ID 1 CORR. FACTOR +0.4
- [ ] OBSERVED TEMPS: 3.2
- [ ] CORRECTED TEMPS: 3.6

SAMPLE INFORMATION

- [ ] SAMPLE LABELS PRESENT ON ALL BOTTLES
- [ ] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] 5035 FIELD KIT FROZEN WITHIN 48 HOUR'S
- [ ] RESIDUAL CHLORINE PRESENT

{APPICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

SUMMARY OF COMMENTS: _____

TECHNICIAN SIGNATURE/DATE: 8-9-13 REVIEWER SIGNATURE/DATE: 8/09/13

NF 12/10

receipt confirmation 122910.xls

FA7135: Chain of Custody

Page 2 of 2

Southeast ACCUTEST LABORATORIES

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Instrument Runlogs
- Initial and Continuing Calibration Blanks
- Initial and Continuing Calibration Checks
- High and Low Check Standards
- Interfering Element Check Standards
- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA7135
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA081313M1.ICP Date Analyzed: 08/13/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10966
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
07:49	MA10966-STD1	1		STDA
07:53	MA10966-STD2	1		STDB
07:57	MA10966-STD3	1		STDC
08:00	MA10966-STD4	1		STDD
08:05	MA10966-HSTD1	1		
08:11	MA10966-ICV1	1		
08:20	MA10966-ICB1	1		
08:30	MA10966-CRIA1	1		
08:37	MA10966-ICSA1	1		
08:45	MA10966-ICSAB1	1		
08:52	MA10966-CCV1	1		
09:08	MA10966-CCB1	1		
09:20	MP25654-MB1	1		
09:24	MP25654-B1	1		
09:29	FA7173-1	1		(sample used for QC only; not part of login FA7135)
09:33	MP25654-D1	1		
09:37	MP25654-SD1	5		
09:42	MP25654-PS1	1		
09:46	MP25654-S1	1		
09:50	MP25654-S2	1		
09:55	ZZZZZZ	1		
09:59	MA10966-CCV2	1		
10:03	MA10966-CCB2	1		
10:08	ZZZZZZ	1		
10:12	ZZZZZZ	1		
10:17	ZZZZZZ	1		
10:21	ZZZZZZ	1		
10:26	ZZZZZZ	1		
10:30	ZZZZZZ	1		
10:35	ZZZZZZ	1		
10:39	ZZZZZZ	1		
10:44	ZZZZZZ	1		
10:48	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA7135
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA081313M1.ICP Date Analyzed: 08/13/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10966
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
10:53	MA10966-CCV3	1		
10:57	MA10966-CCB3	1		
11:02	ZZZZZZ	1		
11:06	ZZZZZZ	1		
11:11	ZZZZZZ	1		
11:15	ZZZZZZ	1		
11:20	ZZZZZZ	1		
11:24	ZZZZZZ	1		
11:29	ZZZZZZ	1		
11:33	ZZZZZZ	1		
11:37	MP25655-MB1	1		
11:42	MP25655-B1	1		
11:46	MA10966-CCV4	1		
11:51	MA10966-CCB4	1		
11:55	FA7173-21	1		(sample used for QC only; not part of login FA7135)
12:00	MP25655-D1	1		
12:04	MP25655-SD1	5		
12:09	MP25655-PS1	1		
12:13	MP25655-S1	1		
12:17	MP25655-S2	1		
12:21	ZZZZZZ	1		
12:26	ZZZZZZ	1		
12:30	ZZZZZZ	1		
12:35	ZZZZZZ	1		
12:39	MA10966-CCV5	1		
12:44	MA10966-CCB5	1		
12:48	ZZZZZZ	1		
12:53	ZZZZZZ	1		
12:57	ZZZZZZ	1		
13:02	ZZZZZZ	1		
13:06	ZZZZZZ	1		
13:11	ZZZZZZ	1		
13:15	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA7135
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA081313M1.ICP Date Analyzed: 08/13/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10966
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
13:20	ZZZZZZ	1		
13:25	ZZZZZZ	1		
13:29	ZZZZZZ	1		
13:34	MA10966-CCV6	1		
13:38	MA10966-CCB6	1		
13:58	MA10966-CCV7	1		
14:02	MA10966-CCB7	1		
14:06	ZZZZZZ	1		
14:10	ZZZZZZ	4		
14:15	ZZZZZZ	2		
14:19	ZZZZZZ	2		
14:23	ZZZZZZ	2		
14:28	ZZZZZZ	10		
14:32	ZZZZZZ	10		
14:37	ZZZZZZ	2		
14:42	ZZZZZZ	5		
14:46	ZZZZZZ	4		
14:51	MA10966-CCV8	1		
14:55	MA10966-CCB8	1		
15:00	ZZZZZZ	4		
15:04	ZZZZZZ	2		
15:09	MP25656-MB1	1		
15:13	MP25656-B1	1		
15:18	FA7133-1	1		(sample used for QC only; not part of login FA7135)
15:22	MP25656-D1	1		
15:27	MP25656-SD1	5		
15:31	MP25656-PS1	1		
15:35	MP25656-S1	1		
15:40	MP25656-S2	1		
15:44	MA10966-CCV9	1		
15:48	MA10966-CCB9	1		
15:53	ZZZZZZ	1		
15:57	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA7135
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA081313M1.ICP Date Analyzed: 08/13/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10966
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
16:02	ZZZZZZ	1		
16:06	ZZZZZZ	1		
16:11	ZZZZZZ	1		
16:15	ZZZZZZ	1		
16:20	ZZZZZZ	1		
16:24	ZZZZZZ	1		
16:29	ZZZZZZ	1		
16:33	ZZZZZZ	1		
16:37	MA10966-CCV10	1		
16:42	MA10966-CCB10	1		
16:46	ZZZZZZ	1		
16:51	ZZZZZZ	1		
16:55	ZZZZZZ	1		
16:59	ZZZZZZ	1		
17:04	MP25658-MB1	1		
17:09	MP25658-B1	1		
17:13	FA7188-3	1		(sample used for QC only; not part of login FA7135)
17:18	MP25658-D1	1		
17:23	MP25658-SD1	5		
17:27	MP25658-PS1	1		
17:32	MA10966-CCV11	1		
17:36	MA10966-CCB11	1		
17:41	MP25658-S1	1		
17:46	MP25658-S2	1		
17:50	ZZZZZZ	1		
17:55	ZZZZZZ	1		
18:00	ZZZZZZ	1		
18:04	ZZZZZZ	1		
18:09	ZZZZZZ	1		
18:13	ZZZZZZ	1		
18:18	ZZZZZZ	1		
18:22	ZZZZZZ	1		
18:27	MA10966-CCV12	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA7135
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA081313M1.ICP Date Analyzed: 08/13/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10966
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
18:31	MA10966-CCB12	1		
18:41	ZZZZZZ	1		
18:45	ZZZZZZ	1		
18:50	ZZZZZZ	1		
18:54	ZZZZZZ	1		
18:59	ZZZZZZ	1		
19:03	ZZZZZZ	1		
19:08	ZZZZZZ	1		
19:13	ZZZZZZ	1		
19:17	ZZZZZZ	1		
19:22	MA10966-CCV13	1		
19:26	MA10966-CCB13	1		
19:31	MP25658-MB2A	1		
19:35	MP25658-MB3A	1		
---------->	Last reportable sample/prep for job FA7135			
19:40	MP25659-MB1	1		
19:44	MP25659-B1	1		
19:49	FA7131-1	1		(sample used for QC only; not part of login FA7135)
19:53	MP25659-D1	1		
19:58	MP25659-SD1	5		
20:03	MP25659-S1	1		
20:07	MP25659-S2	1		
20:11	ZZZZZZ	1		
20:16	MA10966-CCV14	1		
20:20	MA10966-CCB14	1		
20:25	ZZZZZZ	1		
20:30	ZZZZZZ	1		
20:34	ZZZZZZ	1		
20:39	MP25659-D2	1		
20:44	MP25659-MB2	1		
20:48	MP25659-B2	1		
20:53	MA10966-CRIA2	1		
20:57	MA10966-ICSA2	1		
21:02	MA10966-ICSAB2	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA7135
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA081313M1.ICP Date Analyzed: 08/13/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10966
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
21:07	MA10966-CCV15	1		
21:11	MA10966-CCB15	1		
---------->	Last reportable CCB for job FA7135			
	Refer to raw data for calibration curve and standards.			

INTERNAL STANDARD SUMMARY

Login Number: FA7135
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA081313M1.ICP Date Analyzed: 08/13/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10966
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
07:49	MA10966-STD1	2010	20565	7065	1062
07:53	MA10966-STD2	1969	20076	7027	999
07:57	MA10966-STD3	1888	19412	6960	908
08:00	MA10966-STD4	1812	18887	6867	842
08:05	MA10966-HSTD1	1791	18719	6790	831
08:11	MA10966-ICV1	1890	19433	6962	913
08:20	MA10966-ICB1	2005 R	20439 R	7062 R	1055 R
08:30	MA10966-CRIA1	1954	19785	6913	1010
08:37	MA10966-ICSA1	1717	17575	6529	788
08:45	MA10966-ICSAB1	1714	17595	6540	778
08:52	MA10966-CCV1	1894	19451	6948	912
09:08	MA10966-CCB1	1977	20338	6942	1045
09:20	MP25654-MB1	1960	20062	6806	1033
09:24	MP25654-B1	1907	19648	6873	947
09:29	FA7173-1	2008	20628	6983	1050
09:33	MP25654-D1	2003	20669	7008	1042
09:37	MP25654-SD1	2013	20595	7046	1056
09:42	MP25654-PS1	1975	20042	6952	1011
09:46	MP25654-S1	1937	19821	6998	957
09:50	MP25654-S2	1909	19809	6975	951
09:55	ZZZZZZ	1959	20394	6959	1020
09:59	MA10966-CCV2	1915	19665	6957	917
10:03	MA10966-CCB2	1996	20485	7007	1058
10:08	ZZZZZZ	2034	20937	7178	1020
10:12	ZZZZZZ	1985	20508	6976	1019
10:17	ZZZZZZ	1983	20635	7006	1043
10:21	ZZZZZZ	2071	21359	7312	991
10:26	ZZZZZZ	2026	21003	7120	1007
10:30	ZZZZZZ	2452	25339	8706	943
10:35	ZZZZZZ	2218	22941	8018	910
10:39	ZZZZZZ	1990	20597	6885	1030
10:44	ZZZZZZ	2028	20763	7078	999
10:48	ZZZZZZ	2028	20834	7054	1010

INTERNAL STANDARD SUMMARY

Login Number: FA7135
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA081313M1.ICP Date Analyzed: 08/13/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10966
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
10:53	MA10966-CCV3	1919	19612	6887	917
10:57	MA10966-CCB3	2013	20230	6993	1057
11:02	ZZZZZZ	2458	24608	8594	1000
11:06	ZZZZZZ	2087	20947	7313	1008
11:11	ZZZZZZ	2458	24513	8726	987
11:15	ZZZZZZ	2010	20161	7107	1033
11:20	ZZZZZZ	2024	20248	7101	1053
11:24	ZZZZZZ	2635	25943	9397	991
11:29	ZZZZZZ	2004	20011	7186	1013
11:33	ZZZZZZ	1973	19678	7138	1007
11:37	MP25655-MB1	1985	19940	7057	1056
11:42	MP25655-B1	1914	18984	6928	955
11:46	MA10966-CCV4	1922	19005	6980	928
11:51	MA10966-CCB4	2021	19816	7165	1075
11:55	FA7173-21	2010	19831	7149	1035
12:00	MP25655-D1	1998	19931	7208	1024
12:04	MP25655-SD1	2013	20082	7150	1060
12:09	MP25655-PS1	1977	19610	7056	999
12:13	MP25655-S1	1928	18954	7079	942
12:17	MP25655-S2	1930	19086	6989	948
12:21	ZZZZZZ	1998	19895	7130	1061
12:26	ZZZZZZ	2027	19982	7142	1044
12:30	ZZZZZZ	2236	22026	8002	998
12:35	ZZZZZZ	1976	19781	7072	1050
12:39	MA10966-CCV5	1900	18719	6955	921
12:44	MA10966-CCB5	1987	19548	7052	1062
12:48	ZZZZZZ	1981	19537	7081	1029
12:53	ZZZZZZ	2157	21198	7664	1008
12:57	ZZZZZZ	2284	22592	8261	963
13:02	ZZZZZZ	2224	21850	7932	969
13:06	ZZZZZZ	1991	19671	7355	865
13:11	ZZZZZZ	1983	19547	7033	1052
13:15	ZZZZZZ	1951	19526	7186	989

INTERNAL STANDARD SUMMARY

Login Number: FA7135
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA081313M1.ICP Date Analyzed: 08/13/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10966
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
13:20	ZZZZZZ	2196	21405	7767	1009
13:25	ZZZZZZ	1993	19561	7125	1015
13:29	ZZZZZZ	2082	20320	7416	1028
13:34	MA10966-CCV6	1882	18710	7016	915
13:38	MA10966-CCB6	1986	19585	7114	1062
13:58	MA10966-CCV7	1864	18344	6970	913
14:02	MA10966-CCB7	1935	19188	7018	1041
14:06	ZZZZZZ	2106	20770	7584	1009
14:10	ZZZZZZ	2234	22099	8208	993
14:15	ZZZZZZ	2303	22630	8431	980
14:19	ZZZZZZ	2409	23371	8652	973
14:23	ZZZZZZ	2383	23335	8708	976
14:28	ZZZZZZ	2272	22010	8095	1036
14:32	ZZZZZZ	2277	22276	8166	1051
14:37	ZZZZZZ	2765	27171	10112	924
14:42	ZZZZZZ	2384	23224	8556	971
14:46	ZZZZZZ	2210	21497	8031	962
14:51	MA10966-CCV8	1874	18557	6901	917
14:55	MA10966-CCB8	1979	19525	7109	1067
15:00	ZZZZZZ	2263	22118	8165	984
15:04	ZZZZZZ	2343	23303	8702	942
15:09	MP25656-MB1	1969	19261	6875	1057
15:13	MP25656-B1	1890	18615	6823	954
15:18	FA7133-1	2201	21810	7936	998
15:22	MP25656-D1	2122	21080	7568	1001
15:27	MP25656-SD1	2030	20130	7256	1046
15:31	MP25656-PS1	2173	21791	7924	977
15:35	MP25656-S1	2087	20856	7719	916
15:40	MP25656-S2	2075	20669	7692	914
15:44	MA10966-CCV9	1873	18592	6880	916
15:48	MA10966-CCB9	1959	19420	7005	1052
15:53	ZZZZZZ	3391 !	33470 !	12284 !	939
15:57	ZZZZZZ	2270	22289	8141	961

INTERNAL STANDARD SUMMARY

Login Number: FA7135
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA081313M1.ICP Date Analyzed: 08/13/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10966
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
16:02	ZZZZZZ	2105	20733	7643	946
16:06	ZZZZZZ	2108	20804	7448	980
16:11	ZZZZZZ	2894 !	28738 !	10510 !	958
16:15	ZZZZZZ	2634 !	26591 !	9914 !	918
16:20	ZZZZZZ	3848 !	37248 !	13598 !	941
16:24	ZZZZZZ	2038	19758	7114	964
16:29	ZZZZZZ	1920	19151	7005	960
16:33	ZZZZZZ	1895	18905	6864	961
16:37	MA10966-CCV10	1876	18662	6960	918
16:42	MA10966-CCB10	1950	19415	6967	1051
16:46	ZZZZZZ	1897	18879	6909	964
16:51	ZZZZZZ	1906	19131	7000	959
16:55	ZZZZZZ	1905	18905	6885	991
16:59	ZZZZZZ	1818	18024	6828	852
17:04	MP25658-MB1	1951	19640	7115	1051
17:09	MP25658-B1	1863	18723	6910	948
17:13	FA7188-3	1577	16125	6528	751
17:18	MP25658-D1	1574	16000	6505	747
17:23	MP25658-SD1	1779	17975	6801	900
17:27	MP25658-PS1	1578	16161	6473	745
17:32	MA10966-CCV11	1834	18325	6810	901
17:36	MA10966-CCB11	1916	19276	6952	1034
17:41	MP25658-S1	1607	16560	6553	735
17:46	MP25658-S2	1598	16420	6471	729
17:50	ZZZZZZ	1667	16621	6570	793
17:55	ZZZZZZ	1670	16624	6604	796
18:00	ZZZZZZ	1915	19227	6921	1041
18:04	ZZZZZZ	1779	18109	6714	934
18:09	ZZZZZZ	1865	18938	6957	989
18:13	ZZZZZZ	1895	19168	6937	1007
18:18	ZZZZZZ	1867	18658	6833	981
18:22	ZZZZZZ	1800	18071	6723	921
18:27	MA10966-CCV12	1810	18290	6763	892

INTERNAL STANDARD SUMMARY

Login Number: FA7135
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA081313M1.ICP Date Analyzed: 08/13/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10966
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
18:31	MA10966-CCB12	1914	19187	6882	1030
18:41	ZZZZZZ	1814	18480	6822	942
18:45	ZZZZZZ	1799	18360	6797	928
18:50	ZZZZZZ	1833	18717	6825	974
18:54	ZZZZZZ	1824	18604	6843	964
18:59	ZZZZZZ	1835	18641	6882	973
19:03	ZZZZZZ	1674	16784	6537	815
19:08	ZZZZZZ	1657	16449	6527	786
19:13	ZZZZZZ	1887	18998	6840	1021
19:17	ZZZZZZ	1900	19296	6893	1037
19:22	MA10966-CCV13	1791	18207	6702	886
19:26	MA10966-CCB13	1904	19160	6815	1028
19:31	MP25658-MB2A	1913	19321	6912	1038
19:35	MP25658-MB3A	1915	19248	6889	1039
19:40	MP25659-MB1	1907	19391	6924	1037
19:44	MP25659-B1	1826	18735	6786	930
19:49	FA7131-1	1819	18073	6780	926
19:53	MP25659-D1	1825	18058	6740	930
19:58	MP25659-SD1	1892	18622	6792	997
20:03	MP25659-S1	1801	17767	6721	884
20:07	MP25659-S2	1809	17857	6732	889
20:11	ZZZZZZ	1821	18045	6819	930
20:16	MA10966-CCV14	1823	18301	6760	897
20:20	MA10966-CCB14	1939	19190	6842	1043
20:25	ZZZZZZ	1827	18062	6785	931
20:30	ZZZZZZ	1776	17727	6721	898
20:34	ZZZZZZ	1798	17927	6771	910
20:39	MP25659-D2	1828	18020	6748	930
20:44	MP25659-MB2	1818	17983	6757	929
20:48	MP25659-B2	1799	18004	6766	888
20:53	MA10966-CRIA2	1913	18962	6781	1015
20:57	MA10966-ICSA2	1670	16425	6324	774
21:02	MA10966-ICSAB2	1646	16452	6313	762

INTERNAL STANDARD SUMMARY

Login Number: FA7135
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA081313M1.ICP Date Analyzed: 08/13/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10966
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
21:07	MA10966-CCV15	1813	18349	6646	890
21:11	MA10966-CCB15	1938	19323	6788	1041

R = Reference for ISTD limits. ! = Outside limits.

LEGEND:

Istd#	Parameter	Limits
Istd#1	Yttrium (2243)	60-125 %
Istd#2	Yttrium (3600)	60-125 %
Istd#3	Yttrium (3710)	60-125 %
Istd#4	Indium	60-125 %

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: FA7135
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA081313M1.ICP Date Analyzed: 08/13/13 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA10966 Units: ug/l

Time:			08:20		09:08		10:03		10:57	
Sample ID:			ICB1		CCB1		CCB2		CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	15	-2.4	<200	4.8	<200	7.9	<200	10.0	<200
Antimony	6.0	1.3	-0.80	<6.0	-0.60	<6.0	0.20	<6.0	0.40	<6.0
Arsenic	10	1.6	0.30	<10	-0.10	<10	0.50	<10	0.20	<10
Barium	200	1	anr							
Beryllium	4.0	.5	anr							
Cadmium	5.0	.5	0.10	<5.0	0.20	<5.0	0.30	<5.0	0.30	<5.0
Calcium	1000	50	-0.50	<1000	5.8	<1000	11.4	<1000	12.9	<1000
Chromium	10	1.8	0.20	<10	0.40	<10	0.60	<10	0.70	<10
Cobalt	50	.5	anr							
Copper	25	1	anr							
Iron	300	29	-2.1	<300	-2.0	<300	14.8	<300	16.8	<300
Lead	5.0	1.1	anr							
Magnesium	5000	74	-11	<5000	8.8	<5000	1.5	<5000	-4.4	<5000
Manganese	15	.7	anr							
Molybdenum	50	.6								
Nickel	40	.5	anr							
Potassium	10000	200	22.9	<10000	32.3	<10000	12.4	<10000	-18	<10000
Selenium	10	2	-1.3	<10	-2.7	<10	-1.2	<10	-4.0	<10
Silver	10	.5	anr							
Sodium	10000	500	1.7	<10000	2.1	<10000	17.7	<10000	15.1	<10000
Strontium	10	.5								
Thallium	10	1.3	anr							
Tin	50	.7								
Titanium	10	.9								
Vanadium	50	.5	anr							
Zinc	20	3	anr							

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: FA7135
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA081313M1.ICP Date Analyzed: 08/13/13 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA10966 Units: ug/l

Time: / Sample ID:			11:51 CCB4		12:44 CCB5		13:38 CCB6		14:02 CCB7	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	15	1.2	<200	2.1	<200	1.5	<200	17.5	<200
Antimony	6.0	1.3	-0.20	<6.0	0.80	<6.0	0.10	<6.0	0.50	<6.0
Arsenic	10	1.6	0.40	<10	0.30	<10	0.0	<10	2.1	<10
Barium	200	1	anr							
Beryllium	4.0	.5	anr							
Cadmium	5.0	.5	0.20	<5.0	0.20	<5.0	0.30	<5.0	0.40	<5.0
Calcium	1000	50	7.5	<1000	5.0	<1000	5.9	<1000	19.4	<1000
Chromium	10	1.8	0.50	<10	0.50	<10	0.30	<10	0.60	<10
Cobalt	50	.5	anr							
Copper	25	1	anr							
Iron	300	29	12.5	<300	10.2	<300	6.9	<300	34.6	<300
Lead	5.0	1.1	anr							
Magnesium	5000	74	12.7	<5000	3.6	<5000	41.0	<5000	12.6	<5000
Manganese	15	.7	anr							
Molybdenum	50	.6								
Nickel	40	.5	anr							
Potassium	10000	200	-3.2	<10000	-24	<10000	-6.8	<10000	26.5	<10000
Selenium	10	2	0.40	<10	-1.4	<10	-5.6	<10	-1.3	<10
Silver	10	.5	anr							
Sodium	10000	500	15.0	<10000	8.3	<10000	8.3	<10000	31.3	<10000
Strontium	10	.5								
Thallium	10	1.3	anr							
Tin	50	.7								
Titanium	10	.9								
Vanadium	50	.5	anr							
Zinc	20	3	anr							

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: FA7135
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA081313M1.ICP Date Analyzed: 08/13/13 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA10966 Units: ug/l

Time: / Sample ID:			14:55 CCB8		15:48 CCB9		16:42 CCB10		17:36 CCB11	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	15	10.9	<200	13.4	<200	4.3	<200	4.1	<200
Antimony	6.0	1.3	-0.30	<6.0	0.70	<6.0	0.60	<6.0	-0.20	<6.0
Arsenic	10	1.6	0.30	<10	1.4	<10	0.10	<10	0.10	<10
Barium	200	1	anr							
Beryllium	4.0	.5	anr							
Cadmium	5.0	.5	0.50	<5.0	0.40	<5.0	0.40	<5.0	0.30	<5.0
Calcium	1000	50	9.8	<1000	10.2	<1000	12.2	<1000	28.2	<1000
Chromium	10	1.8	0.80	<10	0.80	<10	0.50	<10	-0.10	<10
Cobalt	50	.5	anr							
Copper	25	1	anr							
Iron	300	29	24.3	<300	19.9	<300	25.7	<300	19.8	<300
Lead	5.0	1.1	anr							
Magnesium	5000	74	10.8	<5000	-8.8	<5000	23.0	<5000	43.5	<5000
Manganese	15	.7	anr							
Molybdenum	50	.6								
Nickel	40	.5	anr							
Potassium	10000	200	31.5	<10000	22.7	<10000	12.3	<10000	69.6	<10000
Selenium	10	2	0.70	<10	-0.90	<10	0.0	<10	0.30	<10
Silver	10	.5	anr							
Sodium	10000	500	5.6	<10000	9.9	<10000	9.4	<10000	110	<10000
Strontium	10	.5								
Thallium	10	1.3	anr							
Tin	50	.7								
Titanium	10	.9								
Vanadium	50	.5	anr							
Zinc	20	3	anr							

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: FA7135
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA081313M1.ICP Date Analyzed: 08/13/13 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA10966 Units: ug/l

Time:			18:31		19:26		20:20		21:11	
Sample ID:			CCB12		CCB13		CCB14		CCB15	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	15	1.8	<200	5.0	<200	-0.10	<200	17.9	<200
Antimony	6.0	1.3	-1.1	<6.0	-0.80	<6.0	-0.30	<6.0	-0.20	<6.0
Arsenic	10	1.6	-0.20	<10	0.30	<10	1.3	<10	0.10	<10
Barium	200	1	anr							
Beryllium	4.0	.5	anr							
Cadmium	5.0	.5	0.30	<5.0	0.50	<5.0	0.40	<5.0	0.40	<5.0
Calcium	1000	50	9.7	<1000	20.9	<1000	18.3	<1000	34.8	<1000
Chromium	10	1.8	0.70	<10	0.60	<10	0.70	<10	0.30	<10
Cobalt	50	.5	anr							
Copper	25	1	anr							
Iron	300	29	17.0	<300	20.7	<300	21.9	<300	29.3	<300
Lead	5.0	1.1	anr							
Magnesium	5000	74	5.7	<5000	-2.3	<5000	26.4	<5000	17.1	<5000
Manganese	15	.7	anr							
Molybdenum	50	.6								
Nickel	40	.5	anr							
Potassium	10000	200	71.4	<10000	84.4	<10000	68.7	<10000	52.9	<10000
Selenium	10	2	-1.5	<10	-1.1	<10	-0.20	<10	-1.2	<10
Silver	10	.5	anr							
Sodium	10000	500	72.7	<10000	82.0	<10000	86.9	<10000	66.7	<10000
Strontium	10	.5								
Thallium	10	1.3	anr							
Tin	50	.7								
Titanium	10	.9								
Vanadium	50	.5	anr							
Zinc	20	3	anr							

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA7135
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA081313M1.ICP Date Analyzed: 08/13/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA10966 Units: ug/l

Time:		08:11			08:52			09:59	
Sample ID:	ICV	ICV1		CCV	CCV1		CCV	CCV2	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	39700	99.3	40000	39800	99.5	40000	39400	98.5
Antimony	2000	1980	99.0	2000	2000	100.0	2000	2000	100.0
Arsenic	2000	1980	99.0	2000	2000	100.0	2000	2000	100.0
Barium	anr								
Beryllium	anr								
Cadmium	2000	2000	100.0	2000	2030	101.5	2000	2050	102.5
Calcium	40000	40900	102.3	40000	40100	100.3	40000	41000	102.5
Chromium	2000	2020	101.0	2000	2050	102.5	2000	2050	102.5
Cobalt	anr								
Copper	anr								
Iron	40000	40400	101.0	40000	40500	101.3	40000	40500	101.3
Lead	anr								
Magnesium	40000	39200	98.0	40000	39700	99.3	40000	39900	99.8
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium	40000	40700	101.8	40000	39800	99.5	40000	39600	99.0
Selenium	2000	2010	100.5	2000	2000	100.0	2000	2010	100.5
Silver	anr								
Sodium	40000	40600	101.5	40000	39800	99.5	40000	39500	98.8
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium	anr								
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA7135
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA081313M1.ICP Date Analyzed: 08/13/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA10966 Units: ug/l

Time:		10:53			11:46			12:39	
Sample ID:	CCV	CCV3		CCV	CCV4		CCV	CCV5	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	39900	99.8	40000	39500	98.8	40000	39100	97.8
Antimony	2000	2010	100.5	2000	2020	101.0	2000	2060	103.0
Arsenic	2000	2020	101.0	2000	2060	103.0	2000	2080	104.0
Barium	anr								
Beryllium	anr								
Cadmium	2000	2060	103.0	2000	2110	105.5	2000	2140	107.0
Calcium	40000	41400	103.5	40000	41700	104.3	40000	41900	104.8
Chromium	2000	2080	104.0	2000	2140	107.0	2000	2150	107.5
Cobalt	anr								
Copper	anr								
Iron	40000	41400	103.5	40000	40300	100.8	40000	39900	99.8
Lead	anr								
Magnesium	40000	40600	101.5	40000	41000	102.5	40000	40900	102.3
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium	40000	39800	99.5	40000	39900	99.8	40000	39700	99.3
Selenium	2000	2010	100.5	2000	2060	103.0	2000	2100	105.0
Silver	anr								
Sodium	40000	40000	100.0	40000	40200	100.5	40000	40200	100.5
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium	anr								
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA7135
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA081313M1.ICP Date Analyzed: 08/13/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA10966 Units: ug/l

Time:		13:34			13:58			14:51	
Sample ID:	CCV	CCV6		CCV	CCV7		CCV	CCV8	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	38900	97.3	40000	38800	97.0	40000	39300	98.3
Antimony	2000	2080	104.0	2000	1990	99.5	2000	1990	99.5
Arsenic	2000	2110	105.5	2000	1990	99.5	2000	1980	99.0
Barium	anr								
Beryllium	anr								
Cadmium	2000	2160	108.0	2000	2010	100.5	2000	2010	100.5
Calcium	40000	41500	103.8	40000	39600	99.0	40000	40000	100.0
Chromium	2000	2130	106.5	2000	2010	100.5	2000	2000	100.0
Cobalt	anr								
Copper	anr								
Iron	40000	39500	98.8	40000	39700	99.3	40000	39900	99.8
Lead	anr								
Magnesium	40000	40400	101.0	40000	39000	97.5	40000	39100	97.8
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium	40000	39800	99.5	40000	39100	97.8	40000	39400	98.5
Selenium	2000	2120	106.0	2000	1990	99.5	2000	1990	99.5
Silver	anr								
Sodium	40000	40200	100.5	40000	39100	97.8	40000	39200	98.0
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium	anr								
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA7135
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA081313M1.ICP Date Analyzed: 08/13/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA10966 Units: ug/l

Time:		15:44			16:37			17:32	
Sample ID:	CCV	CCV9		CCV	CCV10		CCV	CCV11	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	39300	98.3	40000	38700	96.8	40000	39200	98.0
Antimony	2000	2010	100.5	2000	2010	100.5	2000	2010	100.5
Arsenic	2000	2000	100.0	2000	1990	99.5	2000	2000	100.0
Barium	anr								
Beryllium	anr								
Cadmium	2000	2030	101.5	2000	2020	101.0	2000	2020	101.0
Calcium	40000	40300	100.8	40000	39600	99.0	40000	39400	98.5
Chromium	2000	2000	100.0	2000	1990	99.5	2000	1990	99.5
Cobalt	anr								
Copper	anr								
Iron	40000	39800	99.5	40000	39200	98.0	40000	39300	98.3
Lead	anr								
Magnesium	40000	39300	98.3	40000	38300	95.8	40000	38200	95.5
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium	40000	39600	99.0	40000	39200	98.0	40000	39800	99.5
Selenium	2000	2010	100.5	2000	2010	100.5	2000	2010	100.5
Silver	anr								
Sodium	40000	39400	98.5	40000	39000	97.5	40000	39400	98.5
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium	anr								
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA7135
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA081313M1.ICP Date Analyzed: 08/13/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA10966 Units: ug/l

Time:		18:27			19:22			20:16	
Sample ID:	CCV	CCV12		CCV	CCV13		CCV	CCV14	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	39300	98.3	40000	39600	99.0	40000	38800	97.0
Antimony	2000	2040	102.0	2000	2060	103.0	2000	2040	102.0
Arsenic	2000	2020	101.0	2000	2040	102.0	2000	2020	101.0
Barium	anr								
Beryllium	anr								
Cadmium	2000	2030	101.5	2000	2050	102.5	2000	2050	102.5
Calcium	40000	39400	98.5	40000	39500	98.8	40000	39400	98.5
Chromium	2000	1980	99.0	2000	1980	99.0	2000	1980	99.0
Cobalt	anr								
Copper	anr								
Iron	40000	39500	98.8	40000	39600	99.0	40000	38900	97.3
Lead	anr								
Magnesium	40000	38300	95.8	40000	38300	95.8	40000	38000	95.0
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium	40000	40000	100.0	40000	40400	101.0	40000	39800	99.5
Selenium	2000	2040	102.0	2000	2060	103.0	2000	2050	102.5
Silver	anr								
Sodium	40000	39800	99.5	40000	40000	100.0	40000	39500	98.8
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium	anr								
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA7135
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA081313M1.ICP Date Analyzed: 08/13/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA10966 Units: ug/l

Time:		21:07	
Sample ID:	CCV	CCV15	
Metal	True	Results	% Rec
Aluminum	40000	39400	98.5
Antimony	2000	2040	102.0
Arsenic	2000	2020	101.0
Barium	anr		
Beryllium	anr		
Cadmium	2000	2040	102.0
Calcium	40000	39900	99.8
Chromium	2000	1970	98.5
Cobalt	anr		
Copper	anr		
Iron	40000	39800	99.5
Lead	anr		
Magnesium	40000	38400	96.0
Manganese	anr		
Molybdenum			
Nickel	anr		
Potassium	40000	40300	100.8
Selenium	2000	2050	102.5
Silver	anr		
Sodium	40000	39900	99.8
Strontium			
Thallium	anr		
Tin			
Titanium			
Vanadium	anr		
Zinc	anr		

(*) Outside of QC limits
(anr) Analyte not requested

HIGH STANDARD CHECK SUMMARY

Login Number: FA7135
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA081313M1.ICP Date Analyzed: 08/13/13 Methods: SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA10966 Units: ug/l

Time:		08:05	
Sample ID:	HSTD	HSTD1	
Metal	True	Results	% Rec
Aluminum	80000	80800	101.0
Antimony	4000	4050	101.3
Arsenic	4000	4060	101.5
Barium	anr		
Beryllium	anr		
Cadmium	4000	4000	100.0
Calcium	80000	80700	100.9
Chromium	4000	3980	99.5
Cobalt	anr		
Copper	anr		
Iron	80000	79900	99.9
Lead	anr		
Magnesium	80000	81200	101.5
Manganese	anr		
Molybdenum			
Nickel	anr		
Potassium	80000	81100	101.4
Selenium	4000	4050	101.3
Silver	anr		
Sodium	80000	80900	101.1
Strontium			
Thallium	anr		
Tin			
Titanium			
Vanadium	anr		
Zinc	anr		

(*) Outside of QC limits
(anr) Analyte not requested

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: FA7135
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA081313M1.ICP Date Analyzed: 08/13/13 Methods: SW846 6010C
QC Limits: CRI 70-130% CRIA 70-130% Run ID: MA10966 Units: ug/l

Time:			08:30		20:53	
Sample ID:	CRI	CRIA	CRIA1		CRIA2	
Metal	True	True	Results	% Rec	Results	% Rec
Aluminum	400	200	199	99.5	193	96.5
Antimony	10	5.0	4.2	84.0	5.9	118.0
Arsenic	20	10	10.2	102.0	11.2	112.0
Barium	400	200	anr			
Beryllium	10	5.0	anr			
Cadmium	10	5.0	5.3	106.0	5.3	106.0
Calcium	2000	1000	1030	103.0	1020	102.0
Chromium	20	10	10.7	107.0	10.1	101.0
Cobalt	100	50	anr			
Copper	50	25	anr			
Iron	600	300	307	102.3	317	105.7
Lead	10	5.0	anr			
Magnesium	10000	5000	4940	98.8	4730	94.6
Manganese	30	15	anr			
Molybdenum	100	50				
Nickel	80	40	anr			
Potassium	20000	10000	9860	98.6	10000	100.0
Selenium	20	10	9.6	96.0	9.6	96.0
Silver	20	10	anr			
Sodium	20000	10000	9860	98.6	9930	99.3
Strontium	20	10				
Thallium	20	10	anr			
Tin	100	50				
Titanium	20	10				
Vanadium	100	50	anr			
Zinc	40	20	anr			

(*) Outside of QC limits
(anr) Analyte not requested

INTERFERING ELEMENT CHECK STANDARDS SUMMARY
Part 1 - ICSA and ICSAB Standards

Login Number: FA7135
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA081313M1.ICP Date Analyzed: 08/13/13 Methods: SW846 6010C
QC Limits: 80 to 120 % Recovery Run ID: MA10966 Units: ug/l

Time:			08:37		08:45		20:57		21:02	
Sample ID:	ICSA	ICSAB	ICSA1		ICSAB1		ICSA2		ICSAB2	
Metal	True	True	Results	% Rec	Results	% Rec	Results	% Rec	Results	% Rec
Aluminum	500000	500000	520000	104.0	513000	102.6	513000	102.6	508000	101.6
Antimony		1000	1.4		1010	101.0	1.7		1030	103.0
Arsenic		1000	-0.40		1010	101.0	1.6		1020	102.0
Barium		500	0.10		522	104.4	0.10		534	106.8
Beryllium		500	-0.10		497	99.4	-0.10		486	97.2
Cadmium		1000	0.0		904	90.4	-1.2		910	91.0
Calcium	500000	500000	489000	97.8	489000	97.8	482000	96.4	483000	96.6
Chromium		500	0.0		466	93.2	-0.60		456	91.2
Cobalt		500	1.2		454	90.8	1.5		460	92.0
Copper		500	0.0		533	106.6	-1.5		542	108.4
Iron	200000	200000	189000	94.5	188000	94.0	182000	91.0	183000	91.5
Lead		1000	0.0		920	92.0	-1.0		925	92.5
Magnesium	500000	500000	519000	103.8	518000	103.6	498000	99.6	501000	100.2
Manganese		500	0.30		480	96.0	-0.10		477	95.4
Molybdenum		1000	0.0		925	92.5	0.0		944	94.4
Nickel		1000	-0.20		891	89.1	-0.60		902	90.2
Potassium			27.4		39.5		126		91.5	
Selenium		1000	0.0		963	96.3	7.5		991	99.1
Silver		1000	0.70		1000	100.0	0.40		988	98.8
Sodium			82.0		89.4		249		212	
Strontium		1000	12.2		1030	103.0	12.1		1010	101.0
Thallium		1000	0.0		913	91.3	-2.6		924	92.4
Tin		1000	5.0		907	90.7	5.9		919	91.9
Titanium		1000	-2.0		970	97.0	-1.2		978	97.8
Vanadium		500	0.10		472	94.4	0.0		465	93.0
Zinc		1000	-0.40		908	90.8	0.30		913	91.3

(*) Outside of QC limits
(anr) Analyte not requested

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA7135
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB081413M1.ICP Date Analyzed: 08/14/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10968
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
08:47	MA10968-STD1	1		STDA
08:50	MA10968-STD2	1		STDB
08:54	MA10968-STD3	1		STDC
08:58	MA10968-STD4	1		STDD
09:02	MA10968-HSTD1	1		
09:09	MA10968-ICV1	1		
09:19	MA10968-ICB1	1		
09:24	MA10968-CRIA1	1		
09:32	MA10968-ICSA1	1		
09:38	MA10968-ICSAB1	1		
09:45	MA10968-CCV1	1		
09:53	MA10968-CCB1	1		
09:56	MP25660-MB1	1		
10:01	MP25660-B1	1		
10:04	FA7203-7	1		(sample used for QC only; not part of login FA7135)
10:08	MP25660-D1	1		
10:13	MP25660-SD1	5		
10:17	MP25660-PS1	1		
10:21	MP25660-S1	1		
10:25	MP25660-S2	1		
10:28	ZZZZZZ	1		
10:33	ZZZZZZ	1		
10:37	MA10968-CCV2	1		
10:41	MA10968-CCB2	1		
10:45	ZZZZZZ	1		
10:49	ZZZZZZ	1		
10:53	ZZZZZZ	1		
10:57	ZZZZZZ	1		
11:01	ZZZZZZ	1		
11:05	ZZZZZZ	1		
11:09	ZZZZZZ	1		
11:14	ZZZZZZ	1		
11:18	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA7135
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB081413M1.ICP Date Analyzed: 08/14/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10968
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
11:22	ZZZZZZ	1		
11:26	MA10968-CCV3	1		
11:30	MA10968-CCB3	1		
11:34	ZZZZZZ	1		
11:39	ZZZZZZ	1		
11:43	ZZZZZZ	1		
11:47	ZZZZZZ	1		
11:56	ZZZZZZ	5		
12:00	ZZZZZZ	4		
12:04	ZZZZZZ	2		
12:08	ZZZZZZ	5		
12:12	FA7135-1	10		
---------->	Last reportable sample/prep for job FA7135			
12:16	MA10968-CCV4	1		
12:20	MA10968-CCB4	1		
---------->	Last reportable CCB for job FA7135			
12:25	MP25664-MB1	1		
12:29	MP25664-B1	1		
12:33	MP25664-B2	1		
12:37	MP25664-B3	1		
12:41	FA7076-1	1		(sample used for QC only; not part of login FA7135)
12:45	MP25664-D1	1		
12:49	MP25666-MB1	1		
12:53	MP25666-B1	1		
12:57	FA7203-13L	1		(sample used for QC only; not part of login FA7135)
13:02	MP25666-D1	1		
13:06	MA10968-CCV5	1		
13:10	MA10968-CCB5	1		
13:34	MA10968-CCV6	1		
13:42	MA10968-CCB6	1		
13:46	MP25666-SD1	5		
13:50	MP25666-S1	1		
13:54	MP25666-S2	1		
13:58	ZZZZZZ	1		
14:02	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA7135
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB081413M1.ICP Date Analyzed: 08/14/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10968
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
14:07	MP25666-D2	1		
14:11	MP25666-MB2	1		
14:15	MP25666-B2	1		
14:19	MP25666-MB3	1		
14:23	MP25666-B3	1		
14:27	MA10968-CCV7	1		
14:31	MA10968-CCB7	1		
14:36	MP25661-MB1	1		
14:40	MP25661-B1	1		
14:44	FA7114-2F	1		(sample used for QC only; not part of login FA7135)
14:48	MP25661-D1	1		
14:53	MP25661-SD1	5		
14:57	MP25661-PS1	1		
15:01	MP25661-S1	1		
15:05	MP25661-S2	1		
15:10	ZZZZZZ	1		
15:14	ZZZZZZ	1		
15:18	MA10968-CCV8	1		
15:22	MA10968-CCB8	1		

Refer to raw data for calibration curve and standards.

INTERNAL STANDARD SUMMARY

Login Number: FA7135
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB081413M1.ICP Date Analyzed: 08/14/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10968
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
08:47	MA10968-STD1	6810	40691	7110	2885
08:50	MA10968-STD2	6703	39621	7110	2634
08:54	MA10968-STD3	6491	38376	7149	2366
08:58	MA10968-STD4	6135	36644	6973	2102
09:02	MA10968-HSTD1	6182	36530	6999	2110
09:09	MA10968-ICV1	6433	37770	7017	2335
09:19	MA10968-ICB1	6896 R	40686 R	7181 R	2896 R
09:24	MA10968-CRIA1	6882	40020	7351	2782
09:32	MA10968-ICSA1	5969	33737	6976	2043
09:38	MA10968-ICSAB1	5960	33696	7021	1985
09:45	MA10968-CCV1	6585	37981	7295	2337
09:53	MA10968-CCB1	6921	40554	7326	2887
09:56	MP25660-MB1	6747	39982	7223	2790
10:01	MP25660-B1	6528	37880	7162	2444
10:04	FA7203-7	7033	40955	7540	2679
10:08	MP25660-D1	6940	40308	7513	2621
10:13	MP25660-SD1	6950	39120	7378	2830
10:17	MP25660-PS1	6819	39695	7402	2552
10:21	MP25660-S1	6752	38989	7487	2380
10:25	MP25660-S2	6773	39201	7571	2378
10:28	ZZZZZZ	6728	39493	7287	2657
10:33	ZZZZZZ	6717	39755	7250	2754
10:37	MA10968-CCV2	6706	38850	7488	2428
10:41	MA10968-CCB2	6879	40122	7334	2900
10:45	ZZZZZZ	7750	45178	8408	2635
10:49	ZZZZZZ	7663	44437	8294	2549
10:53	ZZZZZZ	7384	43154	7991	2637
10:57	ZZZZZZ	6891	40149	7520	2554
11:01	ZZZZZZ	6700	38761	7393	2521
11:05	ZZZZZZ	6984	40552	7614	2611
11:09	ZZZZZZ	8175	47839	8878	2665
11:14	ZZZZZZ	6858	40243	7410	2770
11:18	ZZZZZZ	7437	42400	8001	2601

INTERNAL STANDARD SUMMARY

Login Number: FA7135
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB081413M1.ICP Date Analyzed: 08/14/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10968
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
11:22	ZZZZZZ	7209	41596	7766	2646
11:26	MA10968-CCV3	6532	37754	7264	2354
11:30	MA10968-CCB3	6863	39629	7321	2910
11:34	ZZZZZZ	7929	46680	9470 !	1960
11:39	ZZZZZZ	15066 !	87452 !	16655 !	2306
11:43	ZZZZZZ	15710 !	90738 !	17344 !	2188
11:47	ZZZZZZ	6818	39834	7320	2751
11:56	ZZZZZZ	7846	45236	8395	2685
12:00	ZZZZZZ	7584	43797	8161	2666
12:04	ZZZZZZ	7795	45168	8710	2340
12:08	ZZZZZZ	8157	46860	8740	2736
12:12	FA7135-1	6814	38537	7480	2444
12:16	MA10968-CCV4	6542	37263	7257	2393
12:20	MA10968-CCB4	6783	39319	7176	2888
12:25	MP25664-MB1	6511	38341	7134	2820
12:29	MP25664-B1	6438	38195	7030	2725
12:33	MP25664-B2	6680	40084	7180	2900
12:37	MP25664-B3	6598	39819	7040	2858
12:41	FA7076-1	6660	39793	7220	2877
12:45	MP25664-D1	6668	40199	7194	2883
12:49	MP25666-MB1	6966	41362	7439	2965
12:53	MP25666-B1	6687	38944	7399	2555
12:57	FA7203-13L	6482	37354	7330	2508
13:02	MP25666-D1	6446	37132	7302	2499
13:06	MA10968-CCV5	6634	38617	7482	2412
13:10	MA10968-CCB5	6821	40120	7329	2874
13:34	MA10968-CCV6	6464	37325	7121	2324
13:42	MA10968-CCB6	6867	40114	7235	2862
13:46	MP25666-SD1	6677	38630	7259	2674
13:50	MP25666-S1	6411	36682	7208	2335
13:54	MP25666-S2	6420	36642	7138	2333
13:58	ZZZZZZ	6428	36798	7163	2416
14:02	ZZZZZZ	6806	39725	7297	2734

INTERNAL STANDARD SUMMARY

Login Number: FA7135
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB081413M1.ICP Date Analyzed: 08/14/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10968
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
14:07	MP25666-D2	6464	36881	7152	2465
14:11	MP25666-MB2	6476	36939	7158	2484
14:15	MP25666-B2	6401	36663	7105	2335
14:19	MP25666-MB3	6808	40105	7224	2857
14:23	MP25666-B3	6557	37886	7076	2492
14:27	MA10968-CCV7	6487	37843	7194	2346
14:31	MA10968-CCB7	6963	40991	7356	2932
14:36	MP25661-MB1	6783	39895	7111	2856
14:40	MP25661-B1	6555	38222	7131	2493
14:44	FA7114-2F	5907	34294	6913	2197
14:48	MP25661-D1	5922	34308	6874	2203
14:53	MP25661-SD1	6480	37579	7129	2548
14:57	MP25661-PS1	5887	33982	6831	2170
15:01	MP25661-S1	5997	34158	6866	2100
15:05	MP25661-S2	6089	34998	6923	2132
15:10	ZZZZZZ	5985	34385	6944	2197
15:14	ZZZZZZ	6628	38870	7145	2641
15:18	MA10968-CCV8	6443	37664	7004	2325
15:22	MA10968-CCB8	6857	40521	7202	2892

R = Reference for ISTD limits. ! = Outside limits.

LEGEND:

Istd#	Parameter	Limits
Istd#1	Yttrium (2243)	60-125 %
Istd#2	Yttrium (3600)	60-125 %
Istd#3	Yttrium (3710)	60-125 %
Istd#4	Indium	60-125 %

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: FA7135
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB081413M1.ICP Date Analyzed: 08/14/13 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA10968 Units: ug/l

Time: / Sample ID:			09:19 ICB1		09:53 CCB1		10:41 CCB2		11:30 CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	15	-6.6	<200	-3.5	<200	-3.7	<200	2.0	<200
Antimony	6.0	1.3	2.4	<6.0	0.0	<6.0	0.50	<6.0	0.0	<6.0
Arsenic	10	1.6	0.10	<10	0.10	<10	0.70	<10	0.20	<10
Barium	200	1	anr							
Beryllium	4.0	.5								
Cadmium	5.0	.5	0.0	<5.0	0.20	<5.0	0.30	<5.0	0.20	<5.0
Calcium	1000	50	-0.70	<1000	7.6	<1000	8.8	<1000	5.8	<1000
Chromium	10	1.8	-0.10	<10	0.40	<10	0.40	<10	0.30	<10
Cobalt	50	.5								
Copper	25	1	anr							
Iron	300	29	1.4	<300	8.9	<300	12.5	<300	11.5	<300
Lead	5.0	1.1	anr							
Magnesium	5000	74	9.2	<5000	12.1	<5000	11.7	<5000	10.6	<5000
Manganese	15	.7	anr							
Molybdenum	50	.6								
Nickel	40	.5								
Potassium	10000	200	20.6	<10000	47.5	<10000	27.7	<10000	-1.3	<10000
Selenium	10	2	0.80	<10	0.70	<10	0.0	<10	0.30	<10
Silver	10	.5	anr							
Sodium	10000	500	26.0	<10000	39.8	<10000	42.1	<10000	36.5	<10000
Strontium	10	.5	anr							
Thallium	10	1.3	anr							
Tin	50	.7								
Titanium	10	.9								
Vanadium	50	.5	anr							
Zinc	20	3	anr							

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: FA7135
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB081413M1.ICP Date Analyzed: 08/14/13 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA10968 Units: ug/l

Time:			12:20	
Sample ID:			CCB4	
Metal	RL	IDL	raw	final
Aluminum	200	15	-3.3	<200
Antimony	6.0	1.3	-0.50	<6.0
Arsenic	10	1.6	0.30	<10
Barium	200	1	anr	
Beryllium	4.0	.5		
Cadmium	5.0	.5	0.10	<5.0
Calcium	1000	50	7.4	<1000
Chromium	10	1.8	0.10	<10
Cobalt	50	.5		
Copper	25	1	anr	
Iron	300	29	13.4	<300
Lead	5.0	1.1	anr	
Magnesium	5000	74	16.1	<5000
Manganese	15	.7	anr	
Molybdenum	50	.6		
Nickel	40	.5		
Potassium	10000	200	32.6	<10000
Selenium	10	2	0.60	<10
Silver	10	.5	anr	
Sodium	10000	500	41.9	<10000
Strontium	10	.5	anr	
Thallium	10	1.3	anr	
Tin	50	.7		
Titanium	10	.9		
Vanadium	50	.5	anr	
Zinc	20	3	anr	

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA7135
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB081413M1.ICP Date Analyzed: 08/14/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA10968 Units: ug/l

Time:		09:09			09:45			10:37	
Sample ID:	ICV	ICV1		CCV	CCV1		CCV	CCV2	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	40300	100.8	40000	40100	100.3	40000	38900	97.3
Antimony	2000	1990	99.5	2000	1900	95.0	2000	1910	95.5
Arsenic	2000	1980	99.0	2000	1920	96.0	2000	1900	95.0
Barium	anr								
Beryllium									
Cadmium	2000	2010	100.5	2000	1990	99.5	2000	1940	97.0
Calcium	40000	41200	103.0	40000	40200	100.5	40000	38900	97.3
Chromium	2000	2040	102.0	2000	2050	102.5	2000	2000	100.0
Cobalt									
Copper	anr								
Iron	40000	40300	100.8	40000	38200	95.5	40000	37700	94.3
Lead	anr								
Magnesium	40000	39700	99.3	40000	38900	97.3	40000	38200	95.5
Manganese	anr								
Molybdenum									
Nickel									
Potassium	40000	40600	101.5	40000	37900	94.8	40000	37100	92.8
Selenium	2000	2000	100.0	2000	1910	95.5	2000	1900	95.0
Silver	anr								
Sodium	40000	41300	103.3	40000	40200	100.5	40000	39100	97.8
Strontium	anr								
Thallium	anr								
Tin									
Titanium									
Vanadium	anr								
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA7135
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB081413M1.ICP Date Analyzed: 08/14/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA10968 Units: ug/l

Time:		11:26			12:16	
Sample ID:	CCV	CCV3		CCV	CCV4	
Metal	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	40500	101.3	40000	39700	99.3
Antimony	2000	1960	98.0	2000	1950	97.5
Arsenic	2000	1960	98.0	2000	1930	96.5
Barium	anr					
Beryllium						
Cadmium	2000	2020	101.0	2000	1990	99.5
Calcium	40000	40400	101.0	40000	39500	98.8
Chromium	2000	2080	104.0	2000	2100	105.0
Cobalt						
Copper	anr					
Iron	40000	39000	97.5	40000	38200	95.5
Lead	anr					
Magnesium	40000	39500	98.8	40000	38700	96.8
Manganese	anr					
Molybdenum						
Nickel						
Potassium	40000	38300	95.8	40000	37100	92.8
Selenium	2000	1960	98.0	2000	1940	97.0
Silver	anr					
Sodium	40000	40600	101.5	40000	39900	99.8
Strontium	anr					
Thallium	anr					
Tin						
Titanium						
Vanadium	anr					
Zinc	anr					

(*) Outside of QC limits
(anr) Analyte not requested

HIGH STANDARD CHECK SUMMARY

Login Number: FA7135
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB081413M1.ICP Date Analyzed: 08/14/13 Methods: SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA10968 Units: ug/l

Time:		09:02	
Sample ID:	HSTD	HSTD1	
Metal	True	Results	% Rec
Aluminum	80000	80600	100.8
Antimony	4000	4020	100.5
Arsenic	4000	4020	100.5
Barium	anr		
Beryllium			
Cadmium	4000	3990	99.8
Calcium	80000	80100	100.1
Chromium	4000	4030	100.8
Cobalt			
Copper	anr		
Iron	80000	79900	99.9
Lead	anr		
Magnesium	80000	79900	99.9
Manganese	anr		
Molybdenum			
Nickel			
Potassium	80000	80600	100.8
Selenium	4000	4010	100.3
Silver	anr		
Sodium	80000	80500	100.6
Strontium	anr		
Thallium	anr		
Tin			
Titanium			
Vanadium	anr		
Zinc	anr		

(*) Outside of QC limits
(anr) Analyte not requested

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: FA7135
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB081413M1.ICP Date Analyzed: 08/14/13 Methods: SW846 6010C
QC Limits: CRI 70-130% CRIA 70-130% Run ID: MA10968 Units: ug/l

Time:			09:24	
Sample ID:	CRI	CRIA	CRIA1	
Metal	True	True	Results	% Rec
Aluminum	400	200	196	98.0
Antimony	10	5.0	5.7	114.0
Arsenic	20	10	10.2	102.0
Barium	400	200	anr	
Beryllium	10	5.0		
Cadmium	10	5.0	5.1	102.0
Calcium	2000	1000	1020	102.0
Chromium	20	10	10.4	104.0
Cobalt	100	50		
Copper	50	25	anr	
Iron	600	300	300	100.0
Lead	10	5.0	anr	
Magnesium	10000	5000	4930	98.6
Manganese	30	15	anr	
Molybdenum	100	50		
Nickel	80	40		
Potassium	20000	10000	9290	92.9
Selenium	20	10	9.8	98.0
Silver	20	10	anr	
Sodium	20000	10000	9830	98.3
Strontium	20	10	anr	
Thallium	20	10	anr	
Tin	100	50		
Titanium	20	10		
Vanadium	100	50	anr	
Zinc	40	20	anr	

(*) Outside of QC limits
(anr) Analyte not requested

INTERFERING ELEMENT CHECK STANDARDS SUMMARY
Part 1 - ICSA and ICSAB Standards

Login Number: FA7135
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB081413M1.ICP Date Analyzed: 08/14/13 Methods: SW846 6010C
QC Limits: 80 to 120 % Recovery Run ID: MA10968 Units: ug/l

Time:			09:32		09:38	
Sample ID:	ICSA	ICSAB	ICSA1		ICSAB1	
Metal	True	True	Results	% Rec	Results	% Rec
Aluminum	500000	500000	495000	99.0	489000	97.8
Antimony		1000	1.1		969	96.9
Arsenic		1000	0.0		987	98.7
Barium		500	-0.30		504	100.8
Beryllium		500	0.0		481	96.2
Cadmium		1000	0.60		923	92.3
Calcium	500000	500000	470000	94.0	468000	93.6
Chromium		500	0.50		490	98.0
Cobalt		500	2.0		456	91.2
Copper		500	0.0		506	101.2
Iron	200000	200000	180000	90.0	177000	88.5
Lead		1000	-0.10		957	95.7
Magnesium	500000	500000	468000	93.6	469000	93.8
Manganese		500	-0.30		486	97.2
Molybdenum		1000	-0.10		887	88.7
Nickel		1000	0.0		879	87.9
Potassium			74.7		71.4	
Selenium		1000	1.0		937	93.7
Silver		1000	-0.40		948	94.8
Sodium			140		141	
Strontium		1000	12.2 (a)		983	98.3
Thallium		1000	0.0		920	92.0
Tin		1000	-0.90		1310	131.0*
Titanium		1000	-0.40		967	96.7
Vanadium		500	0.0		487	97.4
Zinc		1000	-1.6		928	92.8

(*) Outside of QC limits
(anr) Analyte not requested
(a) Verified trace level impurity.

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: FA7135
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

QC Batch ID: MP25658
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date:					08/13/13		08/13/13		08/13/13
Metal	RL	IDL	MDL	MB raw	final	MB raw	final	MB raw	final
Aluminum	200	15	15	-7.6	<200	-4.5	<200	-1.0	<200
Antimony	6.0	1.3	1.3	-0.10	<6.0	-1.6	<6.0	-1.3	<6.0
Arsenic	10	1.6	2.5	-0.40	<10	-0.70	<10	-1.2	<10
Barium	200	1	1						
Beryllium	4.0	.5	.5						
Cadmium	5.0	.5	.5	0.0	<5.0	0.20	<5.0	0.0	<5.0
Calcium	1000	50	50	35.5	<1000	4.9	<1000	-1.0	<1000
Chromium	10	1.8	2	0.10	<10	0.10	<10	0.10	<10
Cobalt	50	.5	.5						
Copper	25	1	1						
Iron	300	29	29	1.8	<300	1.1	<300	2.8	<300
Lead	5.0	1.1	1.1						
Magnesium	5000	74	74	-0.10	<5000	10.2	<5000	9.5	<5000
Manganese	15	.7	.7						
Molybdenum	50	.6	1						
Nickel	40	.5	.5						
Potassium	10000	200	200	-10	<10000	33.7	<10000	58.6	<10000
Selenium	10	2	2	-1.5	<10	0.40	<10	-2.8	<10
Silver	10	.5	.5						
Sodium	10000	500	500	-6.3	<10000	48.8	<10000	43.6	<10000
Strontium	10	.5	.5						
Thallium	10	1.3	1.3						
Tin	50	.7	1.8						
Titanium	10	.9	1						
Vanadium	50	.5	1						
Zinc	20	3	5						

Associated samples MP25658: FA7135-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FA7135
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

QC Batch ID: MP25658
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date:			08/13/13					08/13/13	
Metal	FA7188-3 Original	DUP	RPD	QC Limits	FA7188-3 Original	MS	Spikelot MPFLICP2	% Rec	QC Limits
Aluminum	30.6	38.5	22.9 (a)	0-20	30.6	28300	27000	104.7	80-120
Antimony	1.3	0.0	200.0(a)	0-20	1.3	531	500	105.9	80-120
Arsenic	0.0	0.0	NC	0-20	0.0	2130	2000	106.5	80-120
Barium	anr								
Beryllium	anr								
Cadmium	0.0	0.0	NC	0-20	0.0	45.5	50	91.0	80-120
Calcium	422000	427000	1.2	0-20	422000	430000	25000	32.0 (c)	80-120
Chromium	0.0	0.0	NC	0-20	0.0	189	200	94.5	80-120
Cobalt	anr								
Copper	anr								
Iron	791	795	0.5	0-20	791	26200	26000	97.7	80-120
Lead	anr								
Magnesium	194000	199000	2.5	0-20	194000	213000	25000	76.0 (c)	80-120
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium	39300	40200	2.3	0-20	39300	66100	25000	107.2	80-120
Selenium	0.0	0.0	NC	0-20	0.0	2210	2000	110.5	80-120
Silver	anr								
Sodium	515000	526000(b	2.1	0-20	515000	532000(b	25000	68.0 (c)	80-120
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium	anr								
Zinc	anr								

Associated samples MP25658: FA7135-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) RPD acceptable due to low duplicate and sample concentrations.
(b) Above linear range. For QC purposes only.
(c) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FA7135
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

QC Batch ID: MP25658
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 08/13/13

Metal	FA7188-3 Original	MSD	Spikelot MPFLICP2	% Rec	MSD RPD	QC Limit
Aluminum	30.6	28700	27000	106.2	1.4	20
Antimony	1.3	529	500	105.5	0.4	20
Arsenic	0.0	2140	2000	107.0	0.5	20
Barium	anr					
Beryllium	anr					
Cadmium	0.0	45.4	50	90.8	0.2	20
Calcium	422000	435000	25000	52.0 (a)	1.2	20
Chromium	0.0	191	200	95.5	1.1	20
Cobalt	anr					
Copper	anr					
Iron	791	26600	26000	99.3	1.5	20
Lead	anr					
Magnesium	194000	217000	25000	92.0	1.9	20
Manganese	anr					
Molybdenum						
Nickel	anr					
Potassium	39300	66700	25000	109.6	0.9	20
Selenium	0.0	2190	2000	109.5	0.9	20
Silver	anr					
Sodium	515000	525000(b	25000	40.0 (a)	1.3	20
Strontium						
Thallium	anr					
Tin						
Titanium						
Vanadium	anr					
Zinc	anr					

Associated samples MP25658: FA7135-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.
(b) Above linear range. For QC purposes only.

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: FA7135
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

QC Batch ID: MP25658
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 08/13/13

Metal	BSP Result	Spikelot MPFLICP2	% Rec	QC Limits
Aluminum	26200	27000	97.0	80-120
Antimony	483	500	96.6	80-120
Arsenic	1900	2000	95.0	80-120
Barium	anr			
Beryllium	anr			
Cadmium	47.7	50	95.4	80-120
Calcium	24700	25000	98.8	80-120
Chromium	194	200	97.0	80-120
Cobalt	anr			
Copper	anr			
Iron	25800	26000	99.2	80-120
Lead	anr			
Magnesium	23200	25000	92.8	80-120
Manganese	anr			
Molybdenum				
Nickel	anr			
Potassium	24800	25000	99.2	80-120
Selenium	1900	2000	95.0	80-120
Silver	anr			
Sodium	24500	25000	98.0	80-120
Strontium				
Thallium	anr			
Tin				
Titanium				
Vanadium	anr			
Zinc	anr			

Associated samples MP25658: FA7135-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: FA7135
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

QC Batch ID: MP25658
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 08/13/13

Metal	FA7188-3 Original	SDL 1:5	%DIF	QC Limits
Aluminum	30.6	0.00	100.0(a)	0-10
Antimony	1.30	0.00	100.0(a)	0-10
Arsenic	0.00	0.00	NC	0-10
Barium	anr			
Beryllium	anr			
Cadmium	0.00	0.00	NC	0-10
Calcium	422000	432000	2.3	0-10
Chromium	0.00	0.00	NC	0-10
Cobalt	anr			
Copper	anr			
Iron	791	779	1.4	0-10
Lead	anr			
Magnesium	194000	185000	4.8	0-10
Manganese	anr			
Molybdenum				
Nickel	anr			
Potassium	39300	37100	5.4	0-10
Selenium	0.00	0.00	NC	0-10
Silver	anr			
Sodium	515000	511000	0.9	0-10
Strontium				
Thallium	anr			
Tin				
Titanium				
Vanadium	anr			
Zinc	anr			

Associated samples MP25658: FA7135-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

POST DIGESTATE SPIKE SUMMARY

Login Number: FA7135
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

QC Batch ID: MP25658
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 08/13/13

Metal	Sample ml	Final ml	FA7188-3 Raw	Corr.**	PS ug/l	Spike ml	Spike ug/ml	Spike ug/l	% Rec	QC Limits
Aluminum	9.8	10	30.6	29.988	2575	0.2	125	2500	101.8	80-120
Antimony	9.8	10	1.3	1.274	110.6	0.2	5	100	109.3	80-120
Arsenic	9.8	10			109.8	0.2	5	100	109.8	80-120
Barium										
Beryllium										
Cadmium	9.8	10			47.6	0.2	2.5	50	95.2	80-120
Calcium	9.8	10	422100	413658	417900	0.2	250	5000	84.8	80-120
Chromium	9.8	10			49.3	0.2	2.5	50	98.6	80-120
Cobalt										
Copper										
Iron	9.8	10	790.5	774.69	3563	0.2	150	3000	92.9	80-120
Lead										
Magnesium	9.8	10	194100	190218	195700	0.2	250	5000	109.6	80-120
Manganese										
Molybdenum										
Nickel										
Potassium	9.8	10	39260	38474.8	48990	0.2	500	10000	105.2	80-120
Selenium	9.8	10			111.7	0.2	5	100	111.7	80-120
Silver										
Sodium	9.8	10	515400	505092	516000	0.2	500	10000	109.1	80-120
Strontium										
Thallium										
Tin										
Titanium										
Vanadium										
Zinc										

Associated samples MP25658: FA7135-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(**) Corr. sample result = Raw * (sample volume / final volume)
(anr) Analyte not requested

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General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries
- Instrument Runlogs/QC

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: FA7135
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Alkalinity, Total as CaCO3	GN57280	5.0	1.3	mg/l	250	252	101.0	90-113%
Chloride	GP22284/GN57237	2.0	0.0	mg/l	50	49.4	98.8	90-110%
Fluoride	GP22283/GN57234	0.20	0.0	mg/l	2.5	2.57	102.8	90-110%
Nitrogen, Nitrate	GP22284/GN57237	0.10	0.0	mg/l	2.5	2.53	101.2	90-110%
Phosphate, Ortho	GP22271/GN57203	0.10	0.0	mg/l	.300	0.32	107.0	83-116%
Phosphorus, Total	GP22326/GN57361	0.10	0.0	mg/l	.300	0.33	108.0	81-118%
Solids, Total Dissolved	GN57261	100	14.0	mg/l				
Specific Conductivity	GN57219	1.0	0.0	umhos/cm				
Sulfate	GP22284/GN57237	2.0	0.0	mg/l	50	49.4	98.8	90-110%

Associated Samples:
Batch GN57219: FA7135-1
Batch GN57261: FA7135-1
Batch GN57280: FA7135-1
Batch GP22271: FA7135-1F
Batch GP22283: FA7135-1
Batch GP22284: FA7135-1
Batch GP22326: FA7135-1
(*) Outside of QC limits

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: FA7135
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Alkalinity, Total as CaCO3	GN57280	FA7114-1	mg/l	70.4	70.0	0.6	0-20%
Solids, Total Dissolved	GN57261	FA7174-1	mg/l	110	110	0.0	0-5%
Specific Conductivity	GN57219	FA7135-1	umhos/cm	12900	12900	0.2	0-10%
pH	GN57220	FA7135-1	su	2.54	2.53	0.4	0-10%

Associated Samples:
Batch GN57219: FA7135-1
Batch GN57220: FA7135-1
Batch GN57261: FA7135-1
Batch GN57280: FA7135-1
(*) Outside of QC limits

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: FA7135
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Chloride	GP22284/GN57237	FA7124-2	mg/l	7.1	50	57.0	99.8	90-110%
Fluoride	GP22283/GN57234	FA6957-1	mg/l	5350	2.5	3180	-86800.0(a)	90-110%
Nitrogen, Nitrate	GP22284/GN57237	FA7124-2	mg/l	0.17	2.5	2.7	101.2	90-110%
Phosphate, Ortho	GP22271/GN57203	FA7135-1F	mg/l	1500	3000	4860	112.0	83-116%
Phosphorus, Total	GP22326/GN57361	FA7396-5	mg/l	2.9	.300	4.0	344.0(b)	81-118%
Sulfate	GP22284/GN57237	FA7124-2	mg/l	37.4	50	86.0	97.2	90-110%

Associated Samples:
Batch GP22271: FA7135-1F
Batch GP22283: FA7135-1
Batch GP22284: FA7135-1
Batch GP22326: FA7135-1
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(a) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.
(b) Spike recovery indicates possible matrix interference.

MATRIX SPIKE DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: FA7135
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MSD Result	RPD	QC Limit
Chloride	GP22284/GN57237	FA7124-2	mg/l	7.1	50	56.9	0.2	20%
Fluoride	GP22283/GN57234	FA6957-1	mg/l	5350	2.5	5230	48.8*(a)	20%
Nitrogen, Nitrate	GP22284/GN57237	FA7124-2	mg/l	0.17	2.5	2.7	0.0	20%
Phosphate, Ortho	GP22271/GN57203	FA7135-1F	mg/l	1500	3000	4790	1.3	26%
Phosphorus, Total	GP22326/GN57361	FA7396-5	mg/l	2.9	.300	4.00	1.1	22%
Sulfate	GP22284/GN57237	FA7124-2	mg/l	37.4	50	86.2	0.2	20%

Associated Samples:
Batch GP22271: FA7135-1F
Batch GP22283: FA7135-1
Batch GP22284: FA7135-1
Batch GP22326: FA7135-1
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(a) High RPD due to matrix interference.

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA7135
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: 213090801.TXT Date Analyzed: 08/09/13 Methods: EPA 300/SW846 9056A
Analyst: AA Run ID: GN57234
Parameters: Fluoride

Time	Sample Description	Dilution Factor	PS Recov	Comments
09:14	GN57234-CCV1	1		
09:31	GP22283-MB1	1		
09:48	GP22283-B1	1		
10:39	ZZZZZZ	1		
10:56	FA6957-1	2000		(sample used for QC only; not part of login FA7135)
11:12	GP22283-S1	2000		
11:29	GP22283-S2	2000		
12:10	FA7135-1	2000		
13:12	GN57234-CCV2	1		
13:29	GN57234-CCB1	1		

Refer to raw data for calibration curve and standards.

Instrument QC Summary
Inorganics Analyses

Login Number: FA7135
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: 213090801.TXT Date Analyzed: 08/09/13 Methods: EPA 300/SW846 9056A
Run ID: GN57234 Units: mg/l

Sample Number	Parameter	Result	RL	IDL/MDL	True Value	% Recov.	QC Limits
GN57234-CCV1	Fluoride	2.7	0.20	0.060	2.5	108.0	90-110
GN57234-CCV2	Fluoride	2.4	0.20	0.060	2.5	96.0	90-110
GN57234-CCB1	Fluoride	0.060 U	0.20	0.060			

(!) Outside of QC limits

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA7135
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: 313090801.TXT Date Analyzed: 08/09/13 Methods: EPA 300/SW846 9056A
Analyst: AA Run ID: GN57237
Parameters: Chloride,Nitrogen, Nitrate,Sulfate

Time	Sample Description	Dilution Factor	PS Recov	Comments
09:14	GN57237-CCV1	1		
09:29	GP22284-MB1	1		
09:45	GP22284-B1	1		
10:33	ZZZZZZ	1		
11:04	FA7124-2	1		(sample used for QC only; not part of login FA7135)
11:52	ZZZZZZ	1		
12:08	GN57237-CCV2	1		
12:24	GN57237-CCB1	1		
12:40	ZZZZZZ	5		
12:56	ZZZZZZ	2		
13:12	ZZZZZZ	2		
13:28	FA7135-1	100		
14:06	GP22284-S1	1		
14:22	GP22284-S2	1		
14:38	GN57237-CCV3	1		
14:54	GN57237-CCB2	1		

Refer to raw data for calibration curve and standards.

Instrument QC Summary
Inorganics Analyses

Login Number: FA7135
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: 313090801.TXT Date Analyzed: 08/09/13 Methods: EPA 300/SW846 9056A
Run ID: GN57237 Units: mg/l

Sample Number	Parameter	Result	RL	IDL/MDL	True Value	% Recov.	QC Limits
GN57237-CCV1	Chloride	50.5	2.0	0.80	50	101.0	90-110
GN57237-CCV1	Nitrogen, Nitrate	2.6	0.10	0.050	2.5	104.0	90-110
GN57237-CCV1	Sulfate	50.1	2.0	0.60	50	100.2	90-110
GN57237-CCV2	Chloride	49.9	2.0	0.80	50	99.8	90-110
GN57237-CCV2	Nitrogen, Nitrate	2.5	0.10	0.050	2.5	100.0	90-110
GN57237-CCV2	Sulfate	49.4	2.0	0.60	50	98.8	90-110
GN57237-CCB1	Chloride	0.80 U	2.0	0.80			
GN57237-CCB1	Nitrogen, Nitrate	0.050 U	0.10	0.050			
GN57237-CCB1	Sulfate	0.60 U	2.0	0.60			
GN57237-CCV3	Chloride	50.1	2.0	0.80	50	100.2	90-110
GN57237-CCV3	Nitrogen, Nitrate	2.5	0.10	0.050	2.5	100.0	90-110
GN57237-CCV3	Sulfate	49.4	2.0	0.60	50	98.8	90-110
GN57237-CCB2	Chloride	0.80 U	2.0	0.80			
GN57237-CCB2	Nitrogen, Nitrate	0.050 U	0.10	0.050			
GN57237-CCB2	Sulfate	0.60 U	2.0	0.60			

(!) Outside of QC limits

Southeast
ACCUTEST LABORATORIES

08/27/13

Technical Report for

WSP Environment & Energy

Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID 36785.01

Accutest Job Number: FA7318

Sampling Date: 08/15/13

Report to:

WSP Environment & Energy
205 West Park Street
Jackson, MO 63755
tim.huff@wspgroup.com

ATTN: Tim Huff

Total number of pages in report: **71**

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Harry Behzadi, Ph.D.
Laboratory Director

Client Service contact: Andrea Colby 407-425-6700

Certifications: FL (E83510), LA (03051), KS (E-10327), IA (366), IL (200063), NC (573), NJ (FL002), SC (96038001) DoD ELAP (L-A-B L2229), CA (04226CA), TX (T104704404), AK, AR, GA, KY, MA, NV, OK, UT, VA, WA, WI

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Sample Summary

WSP Environment & Energy

Job No: FA7318

Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID
Project No: 36785.01

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA7318-1	08/15/13	09:55	TL	08/16/13	AQ	Ground Water	A-34-022
FA7318-1F	08/15/13	09:55	TL	08/16/13	AQ	Groundwater Filtered	A-34-022

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: WSP Environment & Energy **Job:** FA7318

Site: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID **Report:** 8/27/2013 10:08:28 AM

1 Sample was collected on 08/15/2013 and was received at Accutest SE on 08/16/2013 properly preserved, at 3.4 Deg. C and intact. The Sample received an Accutest job number of FA7318. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Metals By Method SW846 6010C

Matrix: AQ **Batch ID:** MP25706

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA7318-1DUP, FA7318-1MSD, FA7318-1PS, FA7318-1SDL were used as the QC samples for metals.

Matrix Spike Recovery(s)/Matrix Spike Duplicate Recovery(s) for Antimony, Arsenic, Selenium are outside control limits. Spike recovery indicates possible matrix interference.
Matrix Spike Recovery(s)/Matrix Spike Duplicate Recovery(s) for Aluminum, Cadmium, Calcium, Chromium, Iron, Magnesium, Potassium, Sodium are outside control limits. Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

RPD(s) for Serial Dilution for Arsenic, Selenium, Aluminum, Cadmium, Calcium, Chromium, Iron, Magnesium, Potassium, Sodium are outside control limits for sample MP25706-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

MP25706-SD1 for Cadmium: Serial dilution indicates possible matrix interference.

MP25706-SD1 for Sodium: Serial dilution indicates possible matrix interference.

MP25706-SD1 for Aluminum: Serial dilution indicates possible matrix interference.

MP25706-SD1 for Potassium: Serial dilution indicates possible matrix interference.

MP25706-SD1 for Magnesium: Serial dilution indicates possible matrix interference.

MP25706-SD1 for Iron: Serial dilution indicates possible matrix interference.

MP25706-PS1 for Sodium: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP25706-PS1 for Potassium: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP25706-PS1 for Magnesium: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP25706-PS1 for Iron: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP25706-PS1 for Chromium: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP25706-PS1 for Calcium: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP25706-PS1 for Cadmium: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP25706-PS1 for Aluminum: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP25706-SD1 for Chromium: Serial dilution indicates possible matrix interference.

MP25706-SD1 for Calcium: Serial dilution indicates possible matrix interference.

Metals By Method SW846 6010C

Matrix: AQ **Batch ID:** MP25706

FA7318-1 for Chromium: Elevated reporting limit(s) due to matrix interference.

FA7318-1 for Selenium: Elevated reporting limit(s) due to matrix interference.

FA7318-1 for Calcium: Elevated reporting limit(s) due to matrix interference.

FA7318-1 for Arsenic: Elevated reporting limit(s) due to matrix interference.

FA7318-1 for Antimony: Elevated reporting limit(s) due to matrix interference.

FA7318-1 for Cadmium: Elevated reporting limit(s) due to matrix interference.

Wet Chemistry By Method EPA 120.1

Matrix: AQ **Batch ID:** GN57412

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA7318-1DUP was used as the QC sample for Specific Conductivity.

FA7318-1 for Specific Conductivity: Sample was field filtered.

Wet Chemistry By Method EPA 300/SW846 9056A

Matrix: AQ **Batch ID:** GP22319

All samples were prepped within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA7300-1MS, FA7300-1MSD were used as the QC samples for Chloride, Nitrogen, Nitrate, Sulfate.

FA7318-1 for Chloride: Dilution required due to matrix interference.

FA7318-1 for Nitrogen, Nitrate: Dilution required due to matrix interference.

Matrix: AQ **Batch ID:** GP22352

All samples were prepped within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA7374-1MSD, FA7374-1MS were used as the QC samples for Fluoride.

Matrix Spike Recovery(s) for Fluoride are outside control limits. Spike recovery indicates possible matrix interference. For method performance in a clean matrix, refer to Blank Spike.

Wet Chemistry By Method EPA 365.3

Matrix: AQ **Batch ID:** GP22309

All samples were prepped within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA7318-1FMS, FA7318-1FMSD were used as the QC samples for Phosphate, Ortho.

Matrix: AQ **Batch ID:** GP22326

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA7396-5MSD, FA7396-5MS were used as the QC samples for Phosphorus, Total.

GP22326-S1 for Phosphorus, Total: Spike recovery indicates possible matrix interference. For method performance in a clean matrix, refer to Blank Spike.

Wet Chemistry By Method SM 4500H B/SW 9040C

Matrix: AQ **Batch ID:** GN57305

Sample(s) FA7294-1DUP was used as the QC sample for pH.

FA7318-1 for pH: Field analysis required. Received out of hold time and analyzed by request.

Wet Chemistry By Method SM19 2320B

Matrix: AQ **Batch ID:** GN57357

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA7356-1DUP was used as the QC samples for Alkalinity, Total as CaCO3.

Wet Chemistry By Method SM19 2540C

Matrix: AQ **Batch ID:** GN57344

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA7349-8DUP was used as the QC sample for Solids, Total Dissolved.

Accutest Laboratories Southeast (ALSE) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALSE and as stated on the COC. ALSE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the ALSE Quality Manual except as noted above. This report is to be used in its entirety. ALSE is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

_____

Kim Benham, Client Services (signature on file)

Date: August 27, 2013

Summary of Hits

Job Number: FA7318
Account: WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID
Collected: 08/15/13

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA7318-1	**A-34-022**					
Aluminum		734	2.0	0.15	mg/l	SW846 6010C
Arsenic [a]		0.140	0.10	0.025	mg/l	SW846 6010C
Cadmium [a]		1.51	0.050	0.0050	mg/l	SW846 6010C
Calcium [a]		462	10	0.50	mg/l	SW846 6010C
Chromium [a]		1.00	0.10	0.020	mg/l	SW846 6010C
Iron		769	3.0	0.29	mg/l	SW846 6010C
Magnesium		519	50	0.74	mg/l	SW846 6010C
Potassium		222	100	2.0	mg/l	SW846 6010C
Selenium [a]		0.0503 J	0.10	0.020	mg/l	SW846 6010C
Sodium		380	100	5.0	mg/l	SW846 6010C
Chloride [b]		118 J	200	80	mg/l	EPA 300/SW846 9056A
Fluoride		4050	400	120	mg/l	EPA 300/SW846 9056A
Nitrogen, Nitrate [b]		5.1 J	10	5.0	mg/l	EPA 300/SW846 9056A
Phosphorus, Total		1880	500	140	mg/l	EPA 365.3
Solids, Total Dissolved		15800	1000	100	mg/l	SM19 2540C
Specific Conductivity [c]		12500	1.0	1.0	umhos/cm	EPA 120.1
Sulfate		7990	200	60	mg/l	EPA 300/SW846 9056A
pH [d]		2.40			su	SM 4500H B/SW 9040C
FA7318-1F	**A-34-022**					
Phosphate, Ortho		1390	500	95	mg/l	EPA 365.3

(a) Elevated reporting limit(s) due to matrix interference.
(b) Dilution required due to matrix interference.
(c) Sample was field filtered.
(d) Field analysis required. Received out of hold time and analyzed by request.

Southeast ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: A-34-022
Lab Sample ID: FA7318-1
Matrix: AQ - Ground Water
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

Date Sampled: 08/15/13
Date Received: 08/16/13
Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	734	2.0	0.15	mg/l	10	08/21/13	08/22/13	LM	SW846 6010C [1]	SW846 3010A [2]
Antimony [a]	0.013 U	0.060	0.013	mg/l	10	08/21/13	08/22/13	LM	SW846 6010C [1]	SW846 3010A [2]
Arsenic [a]	0.140	0.10	0.025	mg/l	10	08/21/13	08/22/13	LM	SW846 6010C [1]	SW846 3010A [2]
Cadmium [a]	1.51	0.050	0.0050	mg/l	10	08/21/13	08/22/13	LM	SW846 6010C [1]	SW846 3010A [2]
Calcium [a]	462	10	0.50	mg/l	10	08/21/13	08/22/13	LM	SW846 6010C [1]	SW846 3010A [2]
Chromium [a]	1.00	0.10	0.020	mg/l	10	08/21/13	08/22/13	LM	SW846 6010C [1]	SW846 3010A [2]
Iron	769	3.0	0.29	mg/l	10	08/21/13	08/22/13	LM	SW846 6010C [1]	SW846 3010A [2]
Magnesium	519	50	0.74	mg/l	10	08/21/13	08/22/13	LM	SW846 6010C [1]	SW846 3010A [2]
Potassium	222	100	2.0	mg/l	10	08/21/13	08/22/13	LM	SW846 6010C [1]	SW846 3010A [2]
Selenium [a]	0.0503 J	0.10	0.020	mg/l	10	08/21/13	08/22/13	LM	SW846 6010C [1]	SW846 3010A [2]
Sodium	380	100	5.0	mg/l	10	08/21/13	08/22/13	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10985
(2) Prep QC Batch: MP25706

(a) Elevated reporting limit(s) due to matrix interference.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: A-34-022
Lab Sample ID: FA7318-1
Matrix: AQ - Ground Water
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

Date Sampled: 08/15/13
Date Received: 08/16/13
Percent Solids: n/a

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Alkalinity, Bicarbonate as CaC	5.0 U	5.0	5.0	mg/l	1	08/21/13 14:08	AC	SM18 4500CO2D
Alkalinity, Carbonate	5.0 U	5.0	5.0	mg/l	1	08/21/13 14:08	AC	SM18 4500CO2D
Alkalinity, Total as CaCO3	0.60 U	5.0	0.60	mg/l	1	08/21/13 14:08	AC	SM19 2320B
Chloride [a]	118 J	200	80	mg/l	100	08/16/13 13:28	AA	EPA 300/SW846 9056A
Fluoride	4050	400	120	mg/l	2000	08/23/13 12:29	AA	EPA 300/SW846 9056A
Nitrogen, Nitrate [a]	5.1 J	10	5.0	mg/l	100	08/16/13 13:28	AA	EPA 300/SW846 9056A
Phosphorus, Total	1880	500	140	mg/l	5000	08/21/13 09:05	LE	EPA 365.3
Solids, Total Dissolved	15800	1000	100	mg/l	10	08/20/13 17:05	KC	SM19 2540C
Specific Conductivity [b]	12500	1.0	1.0	umhos/cm	1	08/26/13 13:50	VK	EPA 120.1
Sulfate	7990	200	60	mg/l	100	08/16/13 13:28	AA	EPA 300/SW846 9056A
pH [c]	2.40			su	1	08/16/13 15:34	MG	SM 4500H B/SW 9040C

(a) Dilution required due to matrix interference.
(b) Sample was field filtered.
(c) Field analysis required. Received out of hold time and analyzed by request.

RL = Reporting Limit
MDL = Method Detection Limit
U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	A-34-022		
Lab Sample ID:	FA7318-1F	**Date Sampled:**	08/15/13
Matrix:	AQ - Groundwater Filtered	**Date Received:**	08/16/13
		Percent Solids:	n/a
Project:	Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Phosphate, Ortho	1390	500	95	mg/l	5000	08/16/13 16:05	FN	EPA 365.3

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

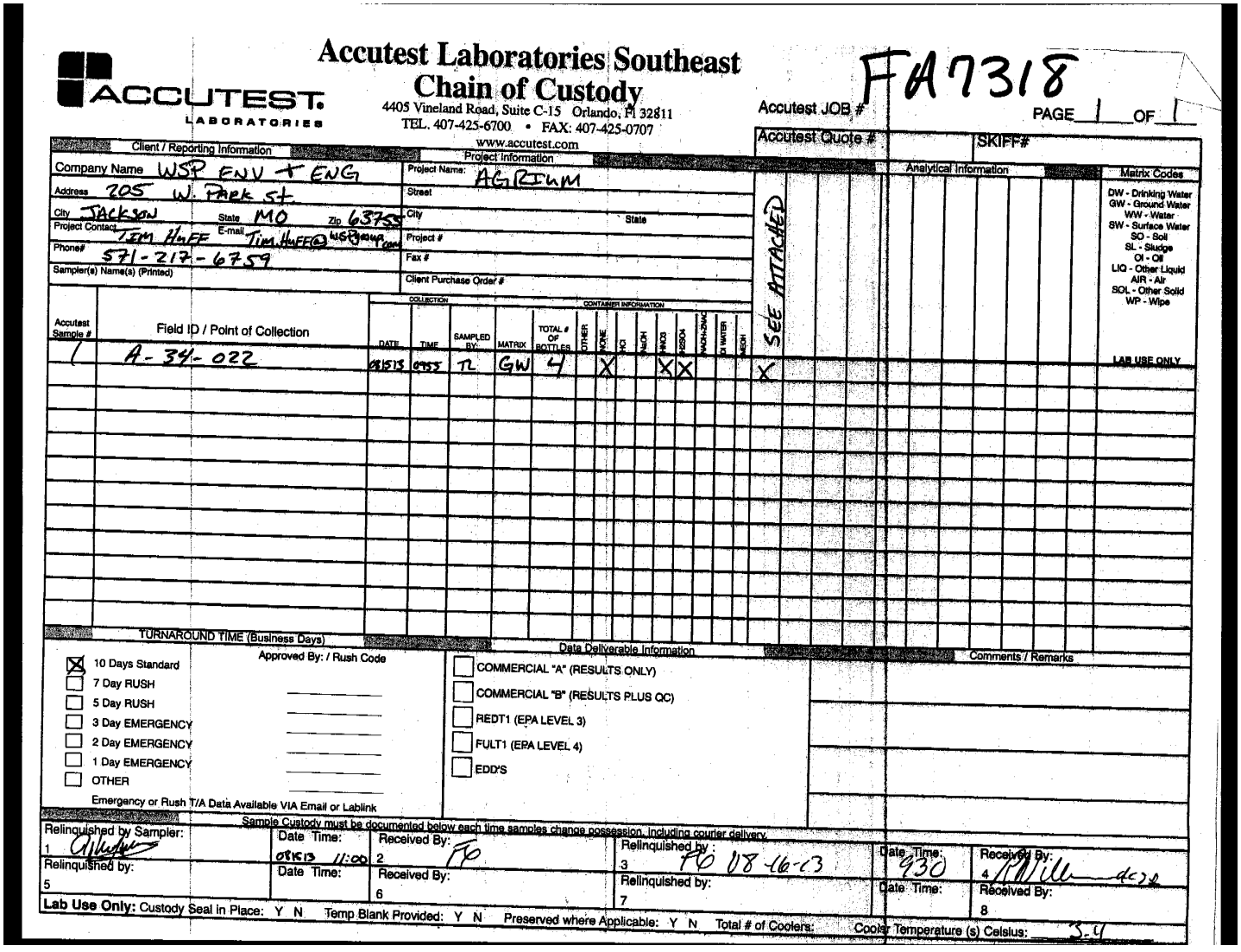
Southeast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody



Accutest Laboratories Southeast
Chain of Custody

ACCUTEST LABORATORIES

4405 Vineland Road, Suite C-15 Orlando, Fl 32811
TEL. 407-425-6700 • FAX: 407-425-0707
www.accutest.com

Accutest JOB # FA7318

PAGE 1 OF 1

Accutest Quote #

SKIFF#

Client / Reporting Information

Company Name: WSP ENV + ENG
Address: 205 W. Park St.
City: JACKSON State: MO Zip: 63755
Project Contact: TIM HUFF E-mail: TIM.HUFF@WSPgroup.com
Phone#: 571-217-6759
Sampler(s) Name(s) (Printed):

Project Information

Project Name: AGRIUM
Street:
City: State:
Project #:
Fax #:
Client Purchase Order #:

Analytical Information

SEE ATTACHED

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL - Sludge
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe

Accutest Sample #	Field ID / Point of Collection	DATE	TIME	SAMPLED BY:	MATRIX	TOTAL # OF BOTTLES	OTHER	NONE	HCl	NaOH	HNO3	H2SO4	NaOH+ZNAC	DI WATER	MEOH	SEE ATTACHED	LAB USE ONLY
1	A-34-022	081513	0955	TL	GW	4		X			X	X				X	

TURNAROUND TIME (Business Days)

Approved By: / Rush Code

- [x] 10 Days Standard
- [ ] 7 Day RUSH
- [ ] 5 Day RUSH
- [ ] 3 Day EMERGENCY
- [ ] 2 Day EMERGENCY
- [ ] 1 Day EMERGENCY
- [ ] OTHER

Emergency or Rush T/A Data Available VIA Email or Lablink

Data Deliverable Information

- [ ] COMMERCIAL "A" (RESULTS ONLY)
- [ ] COMMERCIAL "B" (RESULTS PLUS QC)
- [ ] REDT1 (EPA LEVEL 3)
- [ ] FULT1 (EPA LEVEL 4)
- [ ] EDD'S

Comments / Remarks

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished by:	Date Time:	Received By:
1 [signature]	081513 11:00	2 FO	3 FO 08-16-13	930	4 [signature]
Relinquished by: 5	Date Time:	Received By: 6	Relinquished by: 7	Date Time:	Received By: 8

Lab Use Only: Custody Seal in Place: Y N Temp Blank Provided: Y N Preserved where Applicable: Y N Total # of Coolers: Cooler Temperature (s) Celsius: 3.4

5.1

5

FA7318: Chain of Custody
Page 1 of 3

O-Phos – Field Filtered

Note: A-34-022 High Phosphate

Analyte List #2 (groundwater samples and groundwater sampling equipment blanks)

- total dissolved solids (TDS)
- Total metals - aluminum, antimony, arsenic, cadmium, calcium, chromium, iron, magnesium, potassium, selenium, and sodium
- chloride, fluoride, nitrate as N, and sulfate
- pH
- total phosphorous
- dissolved orthophosphate
- bicarbonate and carbonate alkalinity as CaCO3
- specific conductance

NOTE – If turbidity at the time of sampling is greater than 50 NTU, collect dissolved metals sample and submit to laboratory ON HOLD for the same analyte list as the total metals sample.

FA7318: Chain of Custody
Page 2 of 3

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: FA7318 CLIENT: WSP PROJECT: Agrium

DATE/TIME RECEIVED: 08.16.13 930 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 1

METHOD OF DELIVERY: ~~FEDEX~~ UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 8017 3246 6865

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET
- [ ] WET ICE PRESENT

TRIP BLANK INFORMATION

- [ ] TRIP BLANK PROVIDED
- [V] TRIP BLANK NOT PROVIDED
- [V] TRIP BLANK NOT ON COC
- [ ] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [ ] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM_____ 5-GRAM_____

NUMBER OF 5035 FIELD KITS ? _____

NUMBER OF LAB FILTERED METALS ? _____

TEMPERATURE INFORMATION

- [ ] IR THERM ID 1 CORR. FACTOR +0.4
- [ ] OBSERVED TEMPS: 3.0
- [ ] CORRECTED TEMPS: 3.4

SAMPLE INFORMATION

- [ ] SAMPLE LABELS PRESENT ON ALL BOTTLES
- [ ] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] 5035 FIELD KIT FROZEN WITHIN 48 HOUR'S
- [ ] RESIDUAL CHLORINE PRESENT

{APPICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

SUMMARY OF COMMENTS:

TECHNICIAN SIGNATURE/DATE RWill 081613 REVIEWER SIGNATURE/DATE JC 8.16.13

NF 12/10

receipt confirmation 122910.xls

FA7318: Chain of Custody
Page 3 of 3

Southeast ACCUTEST LABORATORIES

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Instrument Runlogs
- Initial and Continuing Calibration Blanks
- Initial and Continuing Calibration Checks
- High and Low Check Standards
- Interfering Element Check Standards
- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA7318
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB082113M1.ICP Date Analyzed: 08/21/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10983
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
07:52	MA10983-STD1	1		STDA
07:56	MA10983-STD2	1		STDB
08:00	MA10983-STD3	1		STDC
08:04	MA10983-STD4	1		STDD
08:09	MA10983-HSTD1	1		
08:18	MA10983-ICV1	1		
08:24	MA10983-ICB1	1		
08:28	MA10983-CRIA1	1		
08:35	MA10983-ICSA1	1		
08:44	MA10983-ICSAB1	1		
08:50	MA10983-CCV1	1		
08:55	MA10983-CCB1	1		
08:59	MP25699-MB1	1		
09:04	MP25699-B1	1		
09:08	FA7374-1	1		(sample used for QC only; not part of login FA7318)
09:12	MP25699-D1	1		
09:16	MP25699-SD1	5		
09:20	MP25699-PS1	1		
09:24	MP25699-S1	1		
09:28	MP25699-S2	1		
09:32	ZZZZZZ	1		
09:36	ZZZZZZ	1		
09:41	MA10983-CCV2	1		
09:45	MA10983-CCB2	1		
09:49	ZZZZZZ	1		
09:54	ZZZZZZ	1		
09:58	ZZZZZZ	1		
10:03	ZZZZZZ	1		
10:07	ZZZZZZ	1		
10:11	ZZZZZZ	1		
10:15	ZZZZZZ	1		
10:19	ZZZZZZ	1		
10:24	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA7318
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB082113M1.ICP Date Analyzed: 08/21/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10983
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
10:28	ZZZZZZ	1		
10:32	MA10983-CCV3	1		
10:36	MA10983-CCB3	1		
10:40	ZZZZZZ	1		
10:45	ZZZZZZ	1		
10:49	ZZZZZZ	1		
10:54	ZZZZZZ	1		
10:58	ZZZZZZ	1		
11:03	ZZZZZZ	1		
11:07	ZZZZZZ	1		
11:11	MP25698-MB1	1		
11:15	MP25698-B1	1		
11:19	FA7375-1	1		(sample used for QC only; not part of login FA7318)
11:23	MA10983-CCV4	1		
11:27	MA10983-CCB4	1		
11:32	MP25698-D1	1		
11:36	MP25698-SD1	5		
11:40	MP25698-PS1	1		
11:44	MP25698-S1	1		
11:48	MP25698-S2	1		
11:52	ZZZZZZ	1		
11:56	ZZZZZZ	1		
12:01	ZZZZZZ	1		
12:05	ZZZZZZ	1		
12:14	MA10983-CCV5	1		
12:18	MA10983-CCB5	1		
12:27	ZZZZZZ	1		
12:31	ZZZZZZ	1		
12:36	ZZZZZZ	1		
12:40	ZZZZZZ	1		
12:44	ZZZZZZ	1		
12:48	ZZZZZZ	1		
12:52	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA7318
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB082113M1.ICP Date Analyzed: 08/21/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10983
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
12:56	ZZZZZZ	1		
13:01	ZZZZZZ	1		
13:05	MA10983-CCV6	1		
13:09	MA10983-CCB6	1		
13:13	FA7324-1	20		(sample used for QC only; not part of login FA7318)
13:18	MP25688-D1	20		
13:22	MP25688-S1	20		
13:26	MP25688-S2	20		
13:31	MP25688-PS1	20		
13:35	MP25688-SD1	100		
13:40	ZZZZZZ	10		
13:44	ZZZZZZ	20		
13:49	ZZZZZZ	20		
13:53	ZZZZZZ	10		
13:57	MA10983-CCV7	1		
14:02	MA10983-CCB7	1		
14:06	ZZZZZZ	10		
14:10	ZZZZZZ	20		
14:15	ZZZZZZ	20		
14:19	ZZZZZZ	20		
14:24	ZZZZZZ	20		
14:49	MA10983-CCV8	1		
14:53	MA10983-CCB8	1		
15:22	MP25705-MB1	1		
15:26	MP25705-B1	1		
15:30	FA7355-1	1		(sample used for QC only; not part of login FA7318)
15:35	MP25705-D1	1		
15:39	MA10983-CCV9	1		
15:43	MA10983-CCB9	1		
15:47	MP25705-SD1	5		
15:51	MP25705-S1	1		
15:55	MP25705-S2	1		
15:59	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA7318
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB082113M1.ICP Date Analyzed: 08/21/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10983
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
16:04	MP25705-MB2	1		
16:08	MP25705-B2	1		
16:12	MP25706-MB1	1		
16:16	MP25706-B1	1		
---------->	Last reportable sample/prep for job FA7318			
16:30	MA10983-CCV10	1		
16:34	MA10983-CCB10	1		
16:57	ZZZZZZ	1		
17:01	ZZZZZZ	1		
17:06	ZZZZZZ	1		
17:10	ZZZZZZ	1		
17:14	ZZZZZZ	1		
17:18	ZZZZZZ	1		
17:23	MA10983-CCV11	1		
17:27	MA10983-CCB11	1		
17:31	ZZZZZZ	1		
17:35	ZZZZZZ	1		
17:40	ZZZZZZ	1		
17:44	ZZZZZZ	1		
17:48	ZZZZZZ	1		
17:52	ZZZZZZ	1		
17:57	ZZZZZZ	1		
18:01	MA10983-CRIA2	1		
18:05	MA10983-ICSA2	1		
18:09	MA10983-ICSAB2	1		
18:14	MA10983-CCV12	1		
18:18	MA10983-CCB12	1		
---------->	Last reportable CCB for job FA7318			
18:22	MA10983-CCV13	1		
18:26	MA10983-CCB13	1		

Refer to raw data for calibration curve and standards.

INTERNAL STANDARD SUMMARY

Login Number: FA7318
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB082113M1.ICP Date Analyzed: 08/21/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10983
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
07:52	MA10983-STD1	4112	30679	6470	1794
07:56	MA10983-STD2	4032	29618	6409	1647
08:00	MA10983-STD3	3920	28663	6451	1516
08:04	MA10983-STD4	3746	27945	6328	1413
08:09	MA10983-HSTD1	3735	27723	6301	1405
08:18	MA10983-ICV1	3873	28203	6349	1493
08:24	MA10983-ICB1	4111 R	30238 R	6383 R	1776 R
08:28	MA10983-CRIA1	4091	29783	6462	1713
08:35	MA10983-ICSA1	3575	25001	6329	1323
08:44	MA10983-ICSAB1	3543	25174	6230	1304
08:50	MA10983-CCV1	3879	27917	6441	1493
08:55	MA10983-CCB1	4061	29905	6481	1754
08:59	MP25699-MB1	4071	29955	6469	1755
09:04	MP25699-B1	3955	28623	6438	1569
09:08	FA7374-1	3921	28928	6482	1633
09:12	MP25699-D1	3909	28724	6414	1621
09:16	MP25699-SD1	4051	29449	6549	1719
09:20	MP25699-PS1	3925	28737	6499	1598
09:24	MP25699-S1	3927	28308	6457	1523
09:28	MP25699-S2	3929	28171	6441	1516
09:32	ZZZZZZ	3984	28830	6491	1642
09:36	ZZZZZZ	3351	23795	5994	1198
09:41	MA10983-CCV2	3883	27973	6394	1491
09:45	MA10983-CCB2	4083	29602	6387	1750
09:49	ZZZZZZ	3989	29088	6530	1650
09:54	ZZZZZZ	7125 !	51258 !	11762 !	1472
09:58	ZZZZZZ	3538	25757	6220	1336
10:03	ZZZZZZ	4005	29639	6623	1723
10:07	ZZZZZZ	4015	30061	6551	1731
10:11	ZZZZZZ	4024	29993	6566	1716
10:15	ZZZZZZ	4039	29934	6575	1710
10:19	ZZZZZZ	4013	29488	6539	1707
10:24	ZZZZZZ	4447	32679	7291	1685

INTERNAL STANDARD SUMMARY

Login Number: FA7318
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB082113M1.ICP Date Analyzed: 08/21/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10983
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
10:28	ZZZZZZ	4023	29977	6543	1718
10:32	MA10983-CCV3	3852	28352	6402	1496
10:36	MA10983-CCB3	4018	29727	6421	1748
10:40	ZZZZZZ	3958	29009	6467	1663
10:45	ZZZZZZ	3642	26518	6396	1383
10:49	ZZZZZZ	3568	25526	6287	1306
10:54	ZZZZZZ	3635	26564	6303	1383
10:58	ZZZZZZ	3927	29277	6502	1646
11:03	ZZZZZZ	3169	21270	6012	925 !
11:07	ZZZZZZ	3546	24610	6585	1133
11:11	MP25698-MB1	4078	31241	6768	1778
11:15	MP25698-B1	3983	29320	6528	1592
11:19	FA7375-1	4089	29705	6623	1608
11:23	MA10983-CCV4	3873	28279	6390	1497
11:27	MA10983-CCB4	4069	30077	6455	1767
11:32	MP25698-D1	4088	29672	6822	1559
11:36	MP25698-SD1	4126	30530	6648	1738
11:40	MP25698-PS1	4069	29892	6715	1587
11:44	MP25698-S1	4013	29441	6779	1529
11:48	MP25698-S2	4118	30045	6907	1549
11:52	ZZZZZZ	4221	31124	6822	1737
11:56	ZZZZZZ	3385	20613	5288	1107
12:01	ZZZZZZ	4730	34189	8041 !	1540
12:05	ZZZZZZ	5954 !	43260 !	9930 !	1565
12:14	MA10983-CCV5	3861	28618	6448	1512
12:18	MA10983-CCB5	4036	30253	6505	1772
12:27	ZZZZZZ	4173	30233	6756	1673
12:31	ZZZZZZ	4169	30601	6694	1672
12:36	ZZZZZZ	4367	32026	7188	1616
12:40	ZZZZZZ	4377	32328	7314	1603
12:44	ZZZZZZ	4447	32587	7231	1678
12:48	ZZZZZZ	4129	31276	6800	1701
12:52	ZZZZZZ	4314	31814	6967	1656

INTERNAL STANDARD SUMMARY

Login Number: FA7318
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB082113M1.ICP Date Analyzed: 08/21/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10983
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
12:56	ZZZZZZ	4690	33984	7792	1503
13:01	ZZZZZZ	4280	31904	6982	1659
13:05	MA10983-CCV6	3907	28525	6518	1514
13:09	MA10983-CCB6	4050	30066	6512	1777
13:13	FA7324-1	3825	28415	6393	1537
13:18	MP25688-D1	3801	28231	6338	1528
13:22	MP25688-S1	3800	28289	6376	1523
13:26	MP25688-S2	3826	28007	6421	1526
13:31	MP25688-PS1	3779	28151	6391	1518
13:35	MP25688-SD1	3986	29795	6506	1697
13:40	ZZZZZZ	3801	28278	6469	1505
13:44	ZZZZZZ	3807	28325	6413	1524
13:49	ZZZZZZ	3715	27553	6323	1478
13:53	ZZZZZZ	3726	27894	6373	1479
13:57	MA10983-CCV7	3852	28566	6450	1515
14:02	MA10983-CCB7	4037	30255	6486	1778
14:06	ZZZZZZ	3737	27806	6290	1472
14:10	ZZZZZZ	3760	27927	6368	1499
14:15	ZZZZZZ	3788	28135	6412	1504
14:19	ZZZZZZ	3798	28199	6361	1520
14:24	ZZZZZZ	3767	28127	6343	1508
14:49	MA10983-CCV8	3851	28435	6368	1499
14:53	MA10983-CCB8	4036	30161	6411	1762
15:22	MP25705-MB1	4064	30781	6528	1783
15:26	MP25705-B1	3935	29122	6518	1586
15:30	FA7355-1	3989	29692	6452	1691
15:35	MP25705-D1	4027	29930	6532	1707
15:39	MA10983-CCV9	3881	28640	6440	1505
15:43	MA10983-CCB9	4045	30003	6433	1762
15:47	MP25705-SD1	4050	30231	6458	1759
15:51	MP25705-S1	3908	28776	6459	1554
15:55	MP25705-S2	3896	28837	6394	1553
15:59	ZZZZZZ	3892	28827	6428	1617

INTERNAL STANDARD SUMMARY

Login Number: FA7318
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB082113M1.ICP Date Analyzed: 08/21/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10983
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
16:04	MP25705-MB2	4052	30595	6515	1781
16:08	MP25705-B2	3916	29036	6458	1575
16:12	MP25706-MB1	4096	31074	6696	1803
16:16	MP25706-B1	3898	29155	6477	1575
16:30	MA10983-CCV10	3821	28177	6382	1493
16:34	MA10983-CCB10	4046	30153	6446	1769
16:57	ZZZZZZ	3699	27334	6267	1467
17:01	ZZZZZZ	3756	28114	6244	1558
17:06	ZZZZZZ	3775	28026	6349	1511
17:10	ZZZZZZ	3757	28200	6257	1593
17:14	ZZZZZZ	4025	30963	6606	1791
17:18	ZZZZZZ	3330	23365	6292	1057 !
17:23	MA10983-CCV11	3860	28937	6433	1525
17:27	MA10983-CCB11	4051	30623	6428	1790
17:31	ZZZZZZ	2888	19792	5459	885 !
17:35	ZZZZZZ	2796	18986	5285	830 !
17:40	ZZZZZZ	2556	17696 !	5042	738 !
17:44	ZZZZZZ	3701	27752	6218	1469
17:48	ZZZZZZ	3924	29720	6543	1658
17:52	ZZZZZZ	4066	30896	6635	1684
17:57	ZZZZZZ	3945	29985	6441	1645
18:01	MA10983-CRIA2	3993	30074	6410	1728
18:05	MA10983-ICSA2	3518	25597	6205	1338
18:09	MA10983-ICSAB2	3511	25627	6160	1323
18:14	MA10983-CCV12	3847	28892	6374	1527
18:18	MA10983-CCB12	4024	30671	6401	1793
18:22	MA10983-CCV13	3809	28828	6289	1518
18:26	MA10983-CCB13	4046	30737	6442	1798

R = Reference for ISTD limits. ! = Outside limits.

LEGEND:

Istd#	Parameter	Limits
Istd#1	Yttrium (2243)	60-125 %
Istd#2	Yttrium (3600)	60-125 %
Istd#3	Yttrium (3710)	60-125 %
Istd#4	Indium	60-125 %

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: FA7318
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB082113M1.ICP Date Analyzed: 08/21/13 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA10983 Units: ug/l

Time: / Sample ID:			08:24 ICB1		08:55 CCB1		09:45 CCB2		10:36 CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	15	-1.7	<200	5.5	<200	3.4	<200	3.7	<200
Antimony	6.0	1.3	0.90	<6.0	0.50	<6.0	0.10	<6.0	-0.20	<6.0
Arsenic	10	1.6	0.70	<10	0.60	<10	0.70	<10	0.70	<10
Barium	200	1	anr							
Beryllium	4.0	.5	anr							
Cadmium	5.0	.5	0.10	<5.0	0.10	<5.0	0.20	<5.0	0.10	<5.0
Calcium	1000	50	1.4	<1000	8.7	<1000	14.3	<1000	10.4	<1000
Chromium	10	1.8	0.10	<10	0.10	<10	0.20	<10	0.30	<10
Cobalt	50	.5	anr							
Copper	25	1	anr							
Iron	300	29	4.2	<300	9.3	<300	10.8	<300	11.2	<300
Lead	5.0	1.1	anr							
Magnesium	5000	74	7.1	<5000	13.8	<5000	2.3	<5000	-6.3	<5000
Manganese	15	.7	anr							
Molybdenum	50	.6								
Nickel	40	.5	anr							
Potassium	10000	200	-18	<10000	17.8	<10000	136	<10000	-2.1	<10000
Selenium	10	2	0.60	<10	1.3	<10	0.0	<10	0.40	<10
Silver	10	.5	anr							
Sodium	10000	500	4.7	<10000	12.8	<10000	159	<10000	47.7	<10000
Strontium	10	.5								
Thallium	10	1.3	anr							
Tin	50	.7								
Titanium	10	.9								
Vanadium	50	.5	anr							
Zinc	20	3	anr							

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: FA7318
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB082113M1.ICP Date Analyzed: 08/21/13 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA10983 Units: ug/l

Time:			11:27		12:18		13:09		14:02	
Sample ID:			CCB4		CCB5		CCB6		CCB7	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	15	9.4	<200	30.3	<200	-0.40	<200	17.8	<200
Antimony	6.0	1.3	-0.10	<6.0	0.10	<6.0	0.30	<6.0	0.0	<6.0
Arsenic	10	1.6	1.4	<10	0.90	<10	0.70	<10	0.30	<10
Barium	200	1	anr							
Beryllium	4.0	.5	anr							
Cadmium	5.0	.5	0.20	<5.0	0.10	<5.0	0.10	<5.0	0.20	<5.0
Calcium	1000	50	12.2	<1000	8.3	<1000	12.5	<1000	16.1	<1000
Chromium	10	1.8	0.40	<10	0.40	<10	0.50	<10	0.40	<10
Cobalt	50	.5	anr							
Copper	25	1	anr							
Iron	300	29	10.6	<300	17.3	<300	9.4	<300	9.3	<300
Lead	5.0	1.1	anr							
Magnesium	5000	74	18.2	<5000	11.0	<5000	5.0	<5000	18.5	<5000
Manganese	15	.7	anr							
Molybdenum	50	.6								
Nickel	40	.5	anr							
Potassium	10000	200	350	<10000	9.8	<10000	8.1	<10000	46.6	<10000
Selenium	10	2	-0.10	<10	0.0	<10	0.40	<10	0.0	<10
Silver	10	.5	anr							
Sodium	10000	500	391	<10000	77.3	<10000	60.2	<10000	86.0	<10000
Strontium	10	.5								
Thallium	10	1.3	anr							
Tin	50	.7								
Titanium	10	.9								
Vanadium	50	.5	anr							
Zinc	20	3	anr							

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: FA7318
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB082113M1.ICP Date Analyzed: 08/21/13 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA10983 Units: ug/l

Time: / Sample ID:			14:53 CCB8		15:43 CCB9		16:34 CCB10		17:27 CCB11	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	15	2.4	<200	16.6	<200	29.8	<200	11.7	<200
Antimony	6.0	1.3	0.20	<6.0	0.0	<6.0	0.20	<6.0	-0.10	<6.0
Arsenic	10	1.6	0.90	<10	0.60	<10	0.70	<10	0.70	<10
Barium	200	1	anr							
Beryllium	4.0	.5	anr							
Cadmium	5.0	.5	0.10	<5.0	0.20	<5.0	0.20	<5.0	0.10	<5.0
Calcium	1000	50	12.5	<1000	17.2	<1000	29.5	<1000	11.7	<1000
Chromium	10	1.8	0.30	<10	0.50	<10	0.50	<10	0.30	<10
Cobalt	50	.5	anr							
Copper	25	1	anr							
Iron	300	29	8.6	<300	13.2	<300	40.0	<300	28.4	<300
Lead	5.0	1.1	anr							
Magnesium	5000	74	7.5	<5000	18.7	<5000	14.5	<5000	5.6	<5000
Manganese	15	.7	anr							
Molybdenum	50	.6								
Nickel	40	.5	anr							
Potassium	10000	200	-14	<10000	10.9	<10000	124	<10000	710	<10000
Selenium	10	2	0.60	<10	0.90	<10	1.4	<10	0.40	<10
Silver	10	.5	anr							
Sodium	10000	500	50.0	<10000	52.0	<10000	261	<10000	1710	<10000
Strontium	10	.5								
Thallium	10	1.3	anr							
Tin	50	.7								
Titanium	10	.9								
Vanadium	50	.5	anr							
Zinc	20	3	anr							

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: FA7318
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB082113M1.ICP Date Analyzed: 08/21/13 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA10983 Units: ug/l

Time:			18:18	
Sample ID:			CCB12	
Metal	RL	IDL	raw	final
Aluminum	200	15	17.8	<200
Antimony	6.0	1.3	0.30	<6.0
Arsenic	10	1.6	1.3	<10
Barium	200	1	anr	
Beryllium	4.0	.5	anr	
Cadmium	5.0	.5	0.10	<5.0
Calcium	1000	50	20.7	<1000
Chromium	10	1.8	0.50	<10
Cobalt	50	.5	anr	
Copper	25	1	anr	
Iron	300	29	15.9	<300
Lead	5.0	1.1	anr	
Magnesium	5000	74	9.4	<5000
Manganese	15	.7	anr	
Molybdenum	50	.6		
Nickel	40	.5	anr	
Potassium	10000	200	628	<10000
Selenium	10	2	0.70	<10
Silver	10	.5	anr	
Sodium	10000	500	1720	<10000
Strontium	10	.5		
Thallium	10	1.3	anr	
Tin	50	.7		
Titanium	10	.9		
Vanadium	50	.5	anr	
Zinc	20	3	anr	

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA7318
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB082113M1.ICP Date Analyzed: 08/21/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA10983 Units: ug/l

Time:		08:18			08:50			09:41	
Sample ID:	ICV	ICV1		CCV	CCV1		CCV	CCV2	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	40000	100.0	40000	40300	100.8	40000	40300	100.8
Antimony	2000	2000	100.0	2000	2030	101.5	2000	2040	102.0
Arsenic	2000	1980	99.0	2000	1980	99.0	2000	1960	98.0
Barium	anr								
Beryllium	anr								
Cadmium	2000	2000	100.0	2000	2020	101.0	2000	2020	101.0
Calcium	40000	41600	104.0	40000	40500	101.3	40000	40500	101.3
Chromium	2000	2020	101.0	2000	2010	100.5	2000	2030	101.5
Cobalt	anr								
Copper	anr								
Iron	40000	41100	102.8	40000	40800	102.0	40000	41000	102.5
Lead	anr								
Magnesium	40000	39300	98.3	40000	39700	99.3	40000	39500	98.8
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium	40000	40600	101.5	40000	39800	99.5	40000	40800	102.0
Selenium	2000	1990	99.5	2000	1980	99.0	2000	1960	98.0
Silver	anr								
Sodium	40000	40300	100.8	40000	39000	97.5	40000	39900	99.8
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium	anr								
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA7318
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB082113M1.ICP Date Analyzed: 08/21/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA10983 Units: ug/l

Time:		10:32			11:23			12:14	
Sample ID:	CCV	CCV3		CCV	CCV4		CCV	CCV5	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	40000	100.0	40000	40500	101.3	40000	40100	100.3
Antimony	2000	2010	100.5	2000	2050	102.5	2000	2020	101.0
Arsenic	2000	1990	99.5	2000	2010	100.5	2000	2040	102.0
Barium	anr								
Beryllium	anr								
Cadmium	2000	2010	100.5	2000	2040	102.0	2000	2040	102.0
Calcium	40000	40100	100.3	40000	40600	101.5	40000	40300	100.8
Chromium	2000	2000	100.0	2000	2040	102.0	2000	2020	101.0
Cobalt	anr								
Copper	anr								
Iron	40000	39900	99.8	40000	40800	102.0	40000	39900	99.8
Lead	anr								
Magnesium	40000	39700	99.3	40000	40000	100.0	40000	40500	101.3
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium	40000	39400	98.5	40000	40900	102.3	40000	39300	98.3
Selenium	2000	2000	100.0	2000	2020	101.0	2000	2050	102.5
Silver	anr								
Sodium	40000	39400	98.5	40000	40100	100.3	40000	39300	98.3
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium	anr								
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA7318
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB082113M1.ICP Date Analyzed: 08/21/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA10983 Units: ug/l

Time:		13:05			13:57			14:49	
Sample ID:	CCV	CCV6		CCV	CCV7		CCV	CCV8	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	40000	100.0	40000	39700	99.3	40000	40100	100.3
Antimony	2000	2020	101.0	2000	2000	100.0	2000	2010	100.5
Arsenic	2000	2030	101.5	2000	2040	102.0	2000	2030	101.5
Barium	anr								
Beryllium	anr								
Cadmium	2000	2040	102.0	2000	2030	101.5	2000	2030	101.5
Calcium	40000	40400	101.0	40000	39900	99.8	40000	40300	100.8
Chromium	2000	2010	100.5	2000	1990	99.5	2000	2010	100.5
Cobalt	anr								
Copper	anr								
Iron	40000	40000	100.0	40000	39200	98.0	40000	39900	99.8
Lead	anr								
Magnesium	40000	40400	101.0	40000	40100	100.3	40000	40300	100.8
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium	40000	39000	97.5	40000	38600	96.5	40000	39200	98.0
Selenium	2000	2030	101.5	2000	2060	103.0	2000	2040	102.0
Silver	anr								
Sodium	40000	38400	96.0	40000	38700	96.8	40000	39400	98.5
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium	anr								
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA7318
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB082113M1.ICP Date Analyzed: 08/21/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA10983 Units: ug/l

Time:		15:39			16:30			17:23	
Sample ID:	CCV	CCV9		CCV	CCV10		CCV	CCV11	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	39900	99.8	40000	40300	100.8	40000	39400	98.5
Antimony	2000	2010	100.5	2000	2020	101.0	2000	1980	99.0
Arsenic	2000	2010	100.5	2000	2030	101.5	2000	2050	102.5
Barium	anr								
Beryllium	anr								
Cadmium	2000	2020	101.0	2000	2030	101.5	2000	2000	100.0
Calcium	40000	40100	100.3	40000	40400	101.0	40000	39400	98.5
Chromium	2000	2000	100.0	2000	2000	100.0	2000	1980	99.0
Cobalt	anr								
Copper	anr								
Iron	40000	39800	99.5	40000	39900	99.8	40000	38700	96.8
Lead	anr								
Magnesium	40000	39800	99.5	40000	40300	100.8	40000	39800	99.5
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium	40000	39200	98.0	40000	38900	97.3	40000	39700	99.3
Selenium	2000	2020	101.0	2000	2040	102.0	2000	2060	103.0
Silver	anr								
Sodium	40000	39100	97.8	40000	39000	97.5	40000	44000	110.0
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium	anr								
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA7318
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB082113M1.ICP Date Analyzed: 08/21/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA10983 Units: ug/l

Time:		18:14	
Sample ID:	CCV	CCV12	
Metal	True	Results	% Rec
Aluminum	40000	39500	98.8
Antimony	2000	1970	98.5
Arsenic	2000	2070	103.5
Barium	anr		
Beryllium	anr		
Cadmium	2000	2010	100.5
Calcium	40000	39600	99.0
Chromium	2000	1980	99.0
Cobalt	anr		
Copper	anr		
Iron	40000	38600	96.5
Lead	anr		
Magnesium	40000	40300	100.8
Manganese	anr		
Molybdenum			
Nickel	anr		
Potassium	40000	38900	97.3
Selenium	2000	2090	104.5
Silver	anr		
Sodium	40000	40500	101.3
Strontium			
Thallium	anr		
Tin			
Titanium			
Vanadium	anr		
Zinc	anr		

(*) Outside of QC limits
(anr) Analyte not requested

HIGH STANDARD CHECK SUMMARY

Login Number: FA7318
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB082113M1.ICP Date Analyzed: 08/21/13 Methods: SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA10983 Units: ug/l

Time:		08:09	
Sample ID:	HSTD	HSTD1	
Metal	True	Results	% Rec
Aluminum	80000	80200	100.3
Antimony	4000	4040	101.0
Arsenic	4000	4020	100.5
Barium	anr		
Beryllium	anr		
Cadmium	4000	3990	99.8
Calcium	80000	79500	99.4
Chromium	4000	3990	99.8
Cobalt	anr		
Copper	anr		
Iron	80000	79400	99.3
Lead	anr		
Magnesium	80000	79800	99.8
Manganese	anr		
Molybdenum			
Nickel	anr		
Potassium	80000	80500	100.6
Selenium	4000	4000	100.0
Silver	anr		
Sodium	80000	80500	100.6
Strontium			
Thallium	anr		
Tin			
Titanium			
Vanadium	anr		
Zinc	anr		

(*) Outside of QC limits
(anr) Analyte not requested

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: FA7318
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB082113M1.ICP Date Analyzed: 08/21/13 Methods: SW846 6010C
QC Limits: CRI 70-130% CRIA 70-130% Run ID: MA10983 Units: ug/l

Time:			08:28		18:01	
Sample ID:	CRI	CRIA	CRIA1		CRIA2	
Metal	True	True	Results	% Rec	Results	% Rec
Aluminum	400	200	197	98.5	199	99.5
Antimony	10	5.0	4.7	94.0	4.1	82.0
Arsenic	20	10	10.5	105.0	10.9	109.0
Barium	400	200	anr			
Beryllium	10	5.0	anr			
Cadmium	10	5.0	5.0	100.0	5.0	100.0
Calcium	2000	1000	1030	103.0	1010	101.0
Chromium	20	10	10.2	102.0	10.3	103.0
Cobalt	100	50	anr			
Copper	50	25	anr			
Iron	600	300	319	106.3	304	101.3
Lead	10	5.0	anr			
Magnesium	10000	5000	4870	97.4	5030	100.6
Manganese	30	15	anr			
Molybdenum	100	50				
Nickel	80	40	anr			
Potassium	20000	10000	9870	98.7	10400	104.0
Selenium	20	10	10.8	108.0	9.3	93.0
Silver	20	10	anr			
Sodium	20000	10000	9620	96.2	12400	124.0
Strontium	20	10				
Thallium	20	10	anr			
Tin	100	50				
Titanium	20	10				
Vanadium	100	50	anr			
Zinc	40	20	anr			

(*) Outside of QC limits
(anr) Analyte not requested

INTERFERING ELEMENT CHECK STANDARDS SUMMARY
Part 1 - ICSA and ICSAB Standards

Login Number: FA7318
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB082113M1.ICP Date Analyzed: 08/21/13 Methods: SW846 6010C
QC Limits: 80 to 120 % Recovery Run ID: MA10983 Units: ug/l

Time:			08:35		08:44		18:05		18:09	
Sample ID:	ICSA	ICSAB	ICSA1		ICSAB1		ICSA2		ICSAB2	
Metal	True	True	Results	% Rec	Results	% Rec	Results	% Rec	Results	% Rec
Aluminum	500000	500000	497000	99.4	502000	100.4	493000	98.6	503000	100.6
Antimony		1000	0.0		1020	102.0	1.8		1010	101.0
Arsenic		1000	0.0		989	98.9	-1.2		1040	104.0
Barium		500	-0.20		508	101.6	0.10		518	103.6
Beryllium		500	0.0		484	96.8	0.0		467	93.4
Cadmium		1000	0.0		910	91.0	-0.10		914	91.4
Calcium	500000	500000	466000	93.2	466000	93.2	458000	91.6	459000	91.8
Chromium		500	0.90		477	95.4	1.0		472	94.4
Cobalt		500	2.1		454	90.8	1.9		457	91.4
Copper		500	0.0		550	110.0	-1.7		515	103.0
Iron	200000	200000	184000	92.0	183000	91.5	173000	86.5	175000	87.5
Lead		1000	-0.30		935	93.5	-1.0		911	91.1
Magnesium	500000	500000	484000	96.8	488000	97.6	492000	98.4	497000	99.4
Manganese		500	0.0		502	100.4	-0.50		474	94.8
Molybdenum		1000	0.30		923	92.3	-0.20		918	91.8
Nickel		1000	0.60		891	89.1	0.30		935	93.5
Potassium			-16		39.0		988		872	
Selenium		1000	0.0		960	96.0	-1.3		1020	102.0
Silver		1000	0.70		998	99.8	0.60		1020	102.0
Sodium			87.4		96.3		3160		2800	
Strontium		1000	12.3		1020	102.0	11.6		985	98.5
Thallium		1000	0.20		929	92.9	1.2		905	90.5
Tin		1000	1.0		917	91.7	0.10		949	94.9
Titanium		1000	-4.1		1000	100.0	-4.2		958	95.8
Vanadium		500	-0.60		479	95.8	0.20		484	96.8
Zinc		1000	-1.8		911	91.1	-1.2		911	91.1

(*) Outside of QC limits
(anr) Analyte not requested

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA7318
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA082213M1.ICP Date Analyzed: 08/22/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10985
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
07:52	MA10985-STD1	1		STDA
07:56	MA10985-STD2	1		STDB
08:00	MA10985-STD3	1		STDC
08:03	MA10985-STD4	1		STDD
08:07	MA10985-HSTD1	1		
08:13	MA10985-ICV1	1		
08:20	MA10985-ICB1	1		
08:23	MA10985-CRIA1	1		
08:31	MA10985-ICSA1	1		
08:39	MA10985-ICSAB1	1		
08:45	MA10985-CCV1	1		
08:53	MA10985-CCB1	1		
08:57	MP25707-MB1	1		
09:01	MP25707-B1	1		
09:06	FA7420-1	1		(sample used for QC only; not part of login FA7318)
09:10	MP25707-D1	1		
09:15	MP25707-SD1	5		
09:19	MP25707-PS1	1		
09:23	MP25707-S1	1		
09:28	MP25707-S2	1		
09:32	ZZZZZZ	1		
09:37	ZZZZZZ	1		
09:42	MA10985-CCV2	1		
09:46	MA10985-CCB2	1		
09:50	ZZZZZZ	1		
09:55	ZZZZZZ	1		
10:04	ZZZZZZ	1		
10:08	ZZZZZZ	1		
10:13	ZZZZZZ	1		
10:17	ZZZZZZ	1		
10:22	ZZZZZZ	1		
10:26	ZZZZZZ	1		
10:31	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA7318
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA082213M1.ICP Date Analyzed: 08/22/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10985
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
10:35	MA10985-CCV3	1		
10:39	MA10985-CCB3	1		
10:44	ZZZZZZ	1		
10:48	ZZZZZZ	1		
10:53	ZZZZZZ	1		
10:57	ZZZZZZ	1		
11:01	MP25707-MB2	1		
11:06	MP25708-MB1	1		
11:11	MP25708-B1	1		
11:15	FA7414-1	1		(sample used for QC only; not part of login FA7318)
11:19	MP25708-D1	1		
11:24	MP25708-SD1	5		
11:28	MA10985-CCV4	1		
11:32	MA10985-CCB4	1		
11:37	MP25708-PS1	1		
11:41	MP25708-S1	1		
11:45	MP25708-S2	1		
11:49	ZZZZZZ	1		
11:54	ZZZZZZ	1		
11:58	ZZZZZZ	1		
12:07	ZZZZZZ	5		
12:12	ZZZZZZ	20		
12:16	ZZZZZZ	4		
12:20	MA10985-CCV5	1		
12:25	MA10985-CCB5	1		
12:50	MA10985-CCV6	1		
13:01	MA10985-CCB6	1		
13:05	ZZZZZZ	2		
13:10	FA7318-1	10		
13:14	MP25706-D1	10		
13:18	MP25706-S1	10		
13:23	MP25706-S2	10		
13:27	MP25706-PS1	10		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA7318
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA082213M1.ICP Date Analyzed: 08/22/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10985
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
13:31	MP25706-SD1	50		
---------->	Last reportable sample/prep for job FA7318			
13:36	MP25710-MB1	1		
13:40	MP25710-B1	1		
13:45	FA7376-1	1		(sample used for QC only; not part of login FA7318)
13:49	MA10985-CCV7	1		
13:53	MA10985-CCB7	1		
13:58	MP25710-D1	1		
14:03	MP25710-SD1	5		
14:07	MP25710-S1	1		
14:11	MP25710-S2	1		
14:16	ZZZZZZ	1		
14:20	ZZZZZZ	1		
14:29	ZZZZZZ	1		
14:34	ZZZZZZ	1		
14:39	ZZZZZZ	1		
14:43	MA10985-CCV8	1		
14:47	MA10985-CCB8	1		
14:52	ZZZZZZ	1		
14:57	ZZZZZZ	1		
15:01	ZZZZZZ	1		
15:06	ZZZZZZ	1		
15:10	ZZZZZZ	1		
15:15	ZZZZZZ	1		
15:20	MP25710-D2	1		
15:24	MP25710-MB2	1		
15:29	MP25710-B2	1		
15:33	MP25711-MB1	1		
15:38	MA10985-CCV9	1		
15:42	MA10985-CCB9	1		
15:46	MP25711-B1	1		
15:51	FA7041-1R	1		(sample used for QC only; not part of login FA7318)
15:55	MP25711-D1	1		
16:00	MP25711-SD1	5		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA7318
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA082213M1.ICP Date Analyzed: 08/22/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10985
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
16:04	MP25711-S1	1		
16:08	MP25711-S2	1		
16:13	ZZZZZZ	1		
16:17	MP25711-D2	1		
16:21	MP25711-MB2	1		
16:26	MP25711-B2	1		
16:30	MA10985-CCV10	1		
16:34	MA10985-CCB10	1		
16:39	MP25712-MB1	1		
16:43	MP25712-B1	1		
16:48	FA7403-1	1		(sample used for QC only; not part of login FA7318)
16:52	MP25712-D1	1		
16:57	MP25712-SD1	5		
17:01	MP25712-PS1	1		
17:05	MP25712-S1	1		
17:10	MP25712-S2	1		
17:14	ZZZZZZ	1		
17:18	ZZZZZZ	1		
17:23	MA10985-CCV11	1		
17:27	MA10985-CCB11	1		
17:31	ZZZZZZ	1		
17:36	ZZZZZZ	1		
17:45	MA10985-CRIA2	1		
17:50	MA10985-ICSA2	1		
17:54	MA10985-ICSAB2	1		
17:59	MA10985-CCV12	1		
18:03	MA10985-CCB12	1		

----------> Last reportable CCB for job FA7318
Refer to raw data for calibration curve and standards.

INTERNAL STANDARD SUMMARY

Login Number: FA7318
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA082213M1.ICP Date Analyzed: 08/22/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10985
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
07:52	MA10985-STD1	3959	28344	7961	1777
07:56	MA10985-STD2	3910	27990	8039	1641
08:00	MA10985-STD3	3743	26648	7905	1479
08:03	MA10985-STD4	3567	25903	7784	1353
08:07	MA10985-HSTD1	3558	25826	7818	1348
08:13	MA10985-ICV1	3706	26380	7743	1473
08:20	MA10985-ICB1	4004 R	28681 R	8076 R	1794 R
08:23	MA10985-CRIA1	3938	28183	8000	1706
08:31	MA10985-ICSA1	3436	24135	7708	1272
08:39	MA10985-ICSAB1	3391	23728	7563	1237
08:45	MA10985-CCV1	3738	26587	7841	1479
08:53	MA10985-CCB1	3983	28671	8057	1795
08:57	MP25707-MB1	3965	28865	8031	1775
09:01	MP25707-B1	3812	27310	7870	1556
09:06	FA7420-1	3702	26653	7905	1531
09:10	MP25707-D1	3703	26612	7878	1529
09:15	MP25707-SD1	3869	27352	7767	1678
09:19	MP25707-PS1	3715	26565	7903	1504
09:23	MP25707-S1	3723	26312	7943	1443
09:28	MP25707-S2	3806	27104	8106	1480
09:32	ZZZZZZ	3437	24650	7691	1356
09:37	ZZZZZZ	3701	26823	7672	1543
09:42	MA10985-CCV2	3752	27227	7771	1486
09:46	MA10985-CCB2	3912	28576	7747	1756
09:50	ZZZZZZ	3759	27367	7839	1525
09:55	ZZZZZZ	4042	29339	8167	1683
10:04	ZZZZZZ	3456	24605	7531	1338
10:08	ZZZZZZ	3464	24576	7560	1339
10:13	ZZZZZZ	3991	29652	7941	1774
10:17	ZZZZZZ	3722	27074	7660	1523
10:22	ZZZZZZ	3802	27979	7693	1611
10:26	ZZZZZZ	3840	28404	7815	1649
10:31	ZZZZZZ	3837	28178	7777	1629

INTERNAL STANDARD SUMMARY

Login Number: FA7318
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA082213M1.ICP Date Analyzed: 08/22/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10985
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
10:35	MA10985-CCV3	3763	27493	7741	1477
10:39	MA10985-CCB3	3979	29118	7827	1775
10:44	ZZZZZZ	3832	27895	7790	1615
10:48	ZZZZZZ	3939	28813	7912	1638
10:53	ZZZZZZ	3790	27577	7620	1611
10:57	ZZZZZZ	3837	27874	7823	1615
11:01	MP25707-MB2	3960	29080	7760	1767
11:06	MP25708-MB1	3923	28677	7686	1734
11:11	MP25708-B1	3691	26551	7502	1457
11:15	FA7414-1	4019	29367	7841	1701
11:19	MP25708-D1	3998	29426	7866	1705
11:24	MP25708-SD1	4024	29347	7827	1768
11:28	MA10985-CCV4	3779	27373	7722	1487
11:32	MA10985-CCB4	3974	28940	7765	1779
11:37	MP25708-PS1	3966	28508	7812	1628
11:41	MP25708-S1	3875	27974	7668	1530
11:45	MP25708-S2	3864	27762	7765	1527
11:49	ZZZZZZ	4428	31805	8855	1564
11:54	ZZZZZZ	4164	29800	8393	1582
11:58	ZZZZZZ	4043	29350	8083	1725
12:07	ZZZZZZ	4626	33496	9210	1651
12:12	ZZZZZZ	3988	27311	8056	1553
12:16	ZZZZZZ	4577	32862	9223	1533
12:20	MA10985-CCV5	3845	27881	7884	1509
12:25	MA10985-CCB5	3980	29060	7804	1780
12:50	MA10985-CCV6	3835	27792	7839	1506
13:01	MA10985-CCB6	3979	29007	7827	1776
13:05	ZZZZZZ	4678	33157	9668	1451
13:10	FA7318-1	3991	28488	8093	1528
13:14	MP25706-D1	3988	28362	8176	1509
13:18	MP25706-S1	3967	28285	8124	1523
13:23	MP25706-S2	3928	27899	7997	1520
13:27	MP25706-PS1	3972	28372	8168	1512

INTERNAL STANDARD SUMMARY

Login Number: FA7318
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA082213M1.ICP Date Analyzed: 08/22/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10985
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
13:31	MP25706-SD1	3952	28438	7886	1647
13:36	MP25710-MB1	3965	29049	7852	1772
13:40	MP25710-B1	3808	27399	7763	1555
13:45	FA7376-1	3752	26854	7764	1543
13:49	MA10985-CCV7	3761	27333	7750	1487
13:53	MA10985-CCB7	3976	28817	7810	1784
13:58	MP25710-D1	3754	26776	7788	1543
14:03	MP25710-SD1	3882	27993	7833	1668
14:07	MP25710-S1	3728	26708	7733	1459
14:11	MP25710-S2	3744	26808	7785	1468
14:16	ZZZZZZ	3772	26990	7724	1545
14:20	ZZZZZZ	3787	27029	7881	1544
14:29	ZZZZZZ	3694	26443	7680	1535
14:34	ZZZZZZ	3740	26837	7753	1550
14:39	ZZZZZZ	3727	26841	7706	1546
14:43	MA10985-CCV8	3752	27155	7718	1479
14:47	MA10985-CCB8	4053	29381	7988	1813
14:52	ZZZZZZ	3746	26595	7688	1552
14:57	ZZZZZZ	3783	26982	7830	1547
15:01	ZZZZZZ	3815	27125	7860	1539
15:06	ZZZZZZ	3731	26585	7729	1564
15:10	ZZZZZZ	3738	26661	7785	1561
15:15	ZZZZZZ	3973	28456	8305	1541
15:20	MP25710-D2	3744	26727	7785	1547
15:24	MP25710-MB2	3715	26398	7746	1548
15:29	MP25710-B2	3684	26224	7752	1471
15:33	MP25711-MB1	3947	28898	7847	1770
15:38	MA10985-CCV9	3753	27034	7730	1485
15:42	MA10985-CCB9	3962	28570	7807	1776
15:46	MP25711-B1	3798	27229	7800	1558
15:51	FA7041-1R	4206	30389	8425	1680
15:55	MP25711-D1	4220	30454	8467	1679
16:00	MP25711-SD1	4044	29273	7925	1760

INTERNAL STANDARD SUMMARY

Login Number: FA7318
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA082213M1.ICP Date Analyzed: 08/22/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10985
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
16:04	MP25711-S1	4046	28941	8308	1532
16:08	MP25711-S2	4076	29119	8370	1537
16:13	ZZZZZZ	4161	30085	8431	1688
16:17	MP25711-D2	3958	28793	7913	1722
16:21	MP25711-MB2	3966	28878	7812	1778
16:26	MP25711-B2	3800	27253	7744	1557
16:30	MA10985-CCV10	3748	26959	7742	1484
16:34	MA10985-CCB10	3941	28511	7788	1767
16:39	MP25712-MB1	3922	28807	7836	1764
16:43	MP25712-B1	3766	27107	7655	1548
16:48	FA7403-1	3934	28393	7884	1649
16:52	MP25712-D1	3970	28536	7874	1657
16:57	MP25712-SD1	4031	29116	7868	1751
17:01	MP25712-PS1	3931	28205	7931	1610
17:05	MP25712-S1	3798	27151	7748	1514
17:10	MP25712-S2	3887	28024	8000	1541
17:14	ZZZZZZ	3981	29298	7966	1650
17:18	ZZZZZZ	4311	30511	8767	1537
17:23	MA10985-CCV11	3798	27251	7684	1497
17:27	MA10985-CCB11	3973	28622	7782	1775
17:31	ZZZZZZ	4083	28788	8187	1574
17:36	ZZZZZZ	4394	31205	9254	1412
17:45	MA10985-CRIA2	3999	28570	7920	1734
17:50	MA10985-ICSA2	3414	24023	7481	1268
17:54	MA10985-ICSAB2	3394	24037	7440	1248
17:59	MA10985-CCV12	3763	26868	7740	1492
18:03	MA10985-CCB12	3954	28520	7797	1780

R = Reference for ISTD limits. ! = Outside limits.

LEGEND:

Istd#	Parameter	Limits
Istd#1	Yttrium (2243)	60-125 %
Istd#2	Yttrium (3600)	60-125 %
Istd#3	Yttrium (3710)	60-125 %
Istd#4	Indium	60-125 %

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: FA7318
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA082213M1.ICP Date Analyzed: 08/22/13 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA10985 Units: ug/l

Time: / Sample ID:			08:20 ICB1		08:53 CCB1		09:46 CCB2		10:39 CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	15	-18	<200	3.7	<200	-3.0	<200	-2.5	<200
Antimony	6.0	1.3	0.40	<6.0	0.20	<6.0	0.30	<6.0	0.0	<6.0
Arsenic	10	1.6	0.60	<10	0.0	<10	-0.50	<10	0.50	<10
Barium	200	1	anr							
Beryllium	4.0	.5	anr							
Cadmium	5.0	.5	0.0	<5.0	0.10	<5.0	0.10	<5.0	0.10	<5.0
Calcium	1000	50	-0.20	<1000	13.8	<1000	16.3	<1000	6.5	<1000
Chromium	10	1.8	0.0	<10	-0.10	<10	0.30	<10	0.10	<10
Cobalt	50	.5	anr							
Copper	25	1	anr							
Iron	300	29	-0.50	<300	11.9	<300	11.9	<300	7.0	<300
Lead	5.0	1.1	anr							
Magnesium	5000	74	0.30	<5000	15.3	<5000	18.4	<5000	4.5	<5000
Manganese	15	.7	anr							
Molybdenum	50	.6	anr							
Nickel	40	.5	anr							
Potassium	10000	200	41.8	<10000	20.9	<10000	71.6	<10000	35.9	<10000
Selenium	10	2	-1.8	<10	-0.30	<10	-2.2	<10	-1.5	<10
Silver	10	.5	anr							
Sodium	10000	500	5.5	<10000	0.70	<10000	23.9	<10000	32.5	<10000
Strontium	10	.5	anr							
Thallium	10	1.3	anr							
Tin	50	.7	anr							
Titanium	10	.9	anr							
Vanadium	50	.5	anr							
Zinc	20	3	anr							

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: FA7318
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA082213M1.ICP Date Analyzed: 08/22/13 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA10985 Units: ug/l

Time: / Sample ID:			11:32 CCB4		12:25 CCB5		13:01 CCB6		13:53 CCB7	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	15	-4.9	<200	1.4	<200	13.9	<200	23.2	<200
Antimony	6.0	1.3	-0.40	<6.0	-0.10	<6.0	1.2	<6.0	0.50	<6.0
Arsenic	10	1.6	0.20	<10	0.30	<10	0.60	<10	0.90	<10
Barium	200	1	anr							
Beryllium	4.0	.5	anr							
Cadmium	5.0	.5	0.0	<5.0	0.10	<5.0	0.10	<5.0	0.10	<5.0
Calcium	1000	50	3.9	<1000	2.6	<1000	10.9	<1000	11.7	<1000
Chromium	10	1.8	0.10	<10	0.0	<10	0.20	<10	0.50	<10
Cobalt	50	.5	anr							
Copper	25	1	anr							
Iron	300	29	7.6	<300	10.0	<300	11.2	<300	19.8	<300
Lead	5.0	1.1	anr							
Magnesium	5000	74	-0.80	<5000	3.7	<5000	14.8	<5000	26.4	<5000
Manganese	15	.7	anr							
Molybdenum	50	.6	anr							
Nickel	40	.5	anr							
Potassium	10000	200	26.4	<10000	24.7	<10000	10.7	<10000	25.6	<10000
Selenium	10	2	-2.1	<10	-3.0	<10	-0.30	<10	0.10	<10
Silver	10	.5	anr							
Sodium	10000	500	5.0	<10000	-13	<10000	25.9	<10000	35.5	<10000
Strontium	10	.5	anr							
Thallium	10	1.3	anr							
Tin	50	.7	anr							
Titanium	10	.9	anr							
Vanadium	50	.5	anr							
Zinc	20	3	anr							

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: FA7318
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA082213M1.ICP Date Analyzed: 08/22/13 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA10985 Units: ug/l

Time: / Sample ID:			14:47 CCB8		15:42 CCB9		16:34 CCB10		17:27 CCB11	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	15	16.0	<200	17.5	<200	13.7	<200	17.7	<200
Antimony	6.0	1.3	1.1	<6.0	0.50	<6.0	0.20	<6.0	1.4	<6.0
Arsenic	10	1.6	0.10	<10	0.10	<10	-0.20	<10	0.30	<10
Barium	200	1	anr							
Beryllium	4.0	.5	anr							
Cadmium	5.0	.5	0.20	<5.0	0.10	<5.0	0.10	<5.0	0.10	<5.0
Calcium	1000	50	15.2	<1000	10.5	<1000	10.3	<1000	11.4	<1000
Chromium	10	1.8	0.30	<10	0.80	<10	0.80	<10	0.30	<10
Cobalt	50	.5	anr							
Copper	25	1	anr							
Iron	300	29	20.8	<300	17.0	<300	16.1	<300	21.9	<300
Lead	5.0	1.1	anr							
Magnesium	5000	74	19.4	<5000	23.2	<5000	5.4	<5000	18.4	<5000
Manganese	15	.7	anr							
Molybdenum	50	.6	anr							
Nickel	40	.5	anr							
Potassium	10000	200	64.6	<10000	32.8	<10000	26.5	<10000	7.2	<10000
Selenium	10	2	-0.30	<10	-0.20	<10	-0.60	<10	0.40	<10
Silver	10	.5	anr							
Sodium	10000	500	77.0	<10000	75.2	<10000	36.0	<10000	34.5	<10000
Strontium	10	.5	anr							
Thallium	10	1.3	anr							
Tin	50	.7	anr							
Titanium	10	.9	anr							
Vanadium	50	.5	anr							
Zinc	20	3	anr							

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: FA7318
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA082213M1.ICP Date Analyzed: 08/22/13 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA10985 Units: ug/l

Time:			18:03	
Sample ID:			CCB12	
Metal	RL	IDL	raw	final
Aluminum	200	15	33.9	<200
Antimony	6.0	1.3	1.0	<6.0
Arsenic	10	1.6	0.20	<10
Barium	200	1	anr	
Beryllium	4.0	.5	anr	
Cadmium	5.0	.5	0.20	<5.0
Calcium	1000	50	26.6	<1000
Chromium	10	1.8	0.50	<10
Cobalt	50	.5	anr	
Copper	25	1	anr	
Iron	300	29	25.2	<300
Lead	5.0	1.1	anr	
Magnesium	5000	74	29.0	<5000
Manganese	15	.7	anr	
Molybdenum	50	.6	anr	
Nickel	40	.5	anr	
Potassium	10000	200	21.1	<10000
Selenium	10	2	0.80	<10
Silver	10	.5	anr	
Sodium	10000	500	28.9	<10000
Strontium	10	.5	anr	
Thallium	10	1.3	anr	
Tin	50	.7	anr	
Titanium	10	.9	anr	
Vanadium	50	.5	anr	
Zinc	20	3	anr	

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA7318
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA082213M1.ICP Date Analyzed: 08/22/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA10985 Units: ug/l

Time:		08:13			08:45			09:42	
Sample ID:	ICV	ICV1		CCV	CCV1		CCV	CCV2	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	39800	99.5	40000	39900	99.8	40000	39300	98.3
Antimony	2000	1970	98.5	2000	1990	99.5	2000	1990	99.5
Arsenic	2000	1970	98.5	2000	1990	99.5	2000	1960	98.0
Barium	anr								
Beryllium	anr								
Cadmium	2000	1990	99.5	2000	2010	100.5	2000	2000	100.0
Calcium	40000	41100	102.8	40000	40200	100.5	40000	40600	101.5
Chromium	2000	2030	101.5	2000	2040	102.0	2000	1900	95.0
Cobalt	anr								
Copper	anr								
Iron	40000	40600	101.5	40000	40200	100.5	40000	40300	100.8
Lead	anr								
Magnesium	40000	39500	98.8	40000	40300	100.8	40000	39600	99.0
Manganese	anr								
Molybdenum	anr								
Nickel	anr								
Potassium	40000	40400	101.0	40000	39900	99.8	40000	39500	98.8
Selenium	2000	1980	99.0	2000	1990	99.5	2000	1980	99.0
Silver	anr								
Sodium	40000	40700	101.8	40000	40000	100.0	40000	39500	98.8
Strontium	anr								
Thallium	anr								
Tin	anr								
Titanium	anr								
Vanadium	anr								
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA7318
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA082213M1.ICP Date Analyzed: 08/22/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA10985 Units: ug/l

Time:		10:35			11:28			12:20	
Sample ID:	CCV	CCV3		CCV	CCV4		CCV	CCV5	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	39800	99.5	40000	39700	99.3	40000	39100	97.8
Antimony	2000	1980	99.0	2000	1990	99.5	2000	1950	97.5
Arsenic	2000	1950	97.5	2000	1960	98.0	2000	1920	96.0
Barium	anr								
Beryllium	anr								
Cadmium	2000	1980	99.0	2000	2000	100.0	2000	1960	98.0
Calcium	40000	40900	102.3	40000	40900	102.3	40000	40100	100.3
Chromium	2000	1860	93.0	2000	1890	94.5	2000	1860	93.0
Cobalt	anr								
Copper	anr								
Iron	40000	41200	103.0	40000	40800	102.0	40000	40200	100.5
Lead	anr								
Magnesium	40000	40000	100.0	40000	40100	100.3	40000	39600	99.0
Manganese	anr								
Molybdenum	anr								
Nickel	anr								
Potassium	40000	39900	99.8	40000	39800	99.5	40000	39200	98.0
Selenium	2000	1970	98.5	2000	1980	99.0	2000	1940	97.0
Silver	anr								
Sodium	40000	39600	99.0	40000	39800	99.5	40000	39200	98.0
Strontium	anr								
Thallium	anr								
Tin	anr								
Titanium	anr								
Vanadium	anr								
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA7318
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA082213M1.ICP Date Analyzed: 08/22/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA10985 Units: ug/l

Time:		12:50			13:49			14:43	
Sample ID:	CCV	CCV6		CCV	CCV7		CCV	CCV8	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	39200	98.0	40000	39500	98.8	40000	39600	99.0
Antimony	2000	1940	97.0	2000	1980	99.0	2000	2000	100.0
Arsenic	2000	1940	97.0	2000	1990	99.5	2000	1990	99.5
Barium	anr								
Beryllium	anr								
Cadmium	2000	1970	98.5	2000	2020	101.0	2000	2030	101.5
Calcium	40000	39600	99.0	40000	40200	100.5	40000	40400	101.0
Chromium	2000	1970	98.5	2000	2020	101.0	2000	2030	101.5
Cobalt	anr								
Copper	anr								
Iron	40000	39500	98.8	40000	39700	99.3	40000	39700	99.3
Lead	anr								
Magnesium	40000	39500	98.8	40000	40000	100.0	40000	40100	100.3
Manganese	anr								
Molybdenum	anr								
Nickel	anr								
Potassium	40000	39300	98.3	40000	39600	99.0	40000	39800	99.5
Selenium	2000	1950	97.5	2000	2000	100.0	2000	2000	100.0
Silver	anr								
Sodium	40000	39400	98.5	40000	39800	99.5	40000	39700	99.3
Strontium	anr								
Thallium	anr								
Tin	anr								
Titanium	anr								
Vanadium	anr								
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA7318
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA082213M1.ICP Date Analyzed: 08/22/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA10985 Units: ug/l

Time:		15:38			16:30			17:23	
Sample ID:	CCV	CCV9		CCV	CCV10		CCV	CCV11	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	39300	98.3	40000	39400	98.5	40000	39500	98.8
Antimony	2000	1990	99.5	2000	1990	99.5	2000	1970	98.5
Arsenic	2000	1990	99.5	2000	2000	100.0	2000	1980	99.0
Barium	anr								
Beryllium	anr								
Cadmium	2000	2030	101.5	2000	2030	101.5	2000	2020	101.0
Calcium	40000	40200	100.5	40000	40000	100.0	40000	40300	100.8
Chromium	2000	2040	102.0	2000	2070	103.5	2000	2060	103.0
Cobalt	anr								
Copper	anr								
Iron	40000	39300	98.3	40000	39200	98.0	40000	39500	98.8
Lead	anr								
Magnesium	40000	40000	100.0	40000	40100	100.3	40000	40300	100.8
Manganese	anr								
Molybdenum	anr								
Nickel	anr								
Potassium	40000	39600	99.0	40000	39700	99.3	40000	39600	99.0
Selenium	2000	2010	100.5	2000	2000	100.0	2000	1980	99.0
Silver	anr								
Sodium	40000	39500	98.8	40000	39800	99.5	40000	39800	99.5
Strontium	anr								
Thallium	anr								
Tin	anr								
Titanium	anr								
Vanadium	anr								
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA7318
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA082213M1.ICP Date Analyzed: 08/22/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA10985 Units: ug/l

Time:		17:59	
Sample ID:	CCV	CCV12	
Metal	True	Results	% Rec
Aluminum	40000	39300	98.3
Antimony	2000	1980	99.0
Arsenic	2000	1980	99.0
Barium	anr		
Beryllium	anr		
Cadmium	2000	2030	101.5
Calcium	40000	39900	99.8
Chromium	2000	2080	104.0
Cobalt	anr		
Copper	anr		
Iron	40000	38900	97.3
Lead	anr		
Magnesium	40000	39700	99.3
Manganese	anr		
Molybdenum	anr		
Nickel	anr		
Potassium	40000	39500	98.8
Selenium	2000	1990	99.5
Silver	anr		
Sodium	40000	39800	99.5
Strontium	anr		
Thallium	anr		
Tin	anr		
Titanium	anr		
Vanadium	anr		
Zinc	anr		

(*) Outside of QC limits
(anr) Analyte not requested

HIGH STANDARD CHECK SUMMARY

Login Number: FA7318
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA082213M1.ICP Date Analyzed: 08/22/13 Methods: SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA10985 Units: ug/l

Time:		08:07	
Sample ID:	HSTD	HSTD1	
Metal	True	Results	% Rec
Aluminum	80000	80000	100.0
Antimony	4000	4030	100.8
Arsenic	4000	4030	100.8
Barium	anr		
Beryllium	anr		
Cadmium	4000	3990	99.8
Calcium	80000	79100	98.9
Chromium	4000	4020	100.5
Cobalt	anr		
Copper	anr		
Iron	80000	79200	99.0
Lead	anr		
Magnesium	80000	79700	99.6
Manganese	anr		
Molybdenum	anr		
Nickel	anr		
Potassium	80000	79500	99.4
Selenium	4000	4020	100.5
Silver	anr		
Sodium	80000	79600	99.5
Strontium	anr		
Thallium	anr		
Tin	anr		
Titanium	anr		
Vanadium	anr		
Zinc	anr		

(*) Outside of QC limits
(anr) Analyte not requested

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: FA7318
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA082213M1.ICP Date Analyzed: 08/22/13 Methods: SW846 6010C
QC Limits: CRI 70-130% CRIA 70-130% Run ID: MA10985 Units: ug/l

Time:			08:23		17:45	
Sample ID:	CRI	CRIA	CRIA1		CRIA2	
Metal	True	True	Results	% Rec	Results	% Rec
Aluminum	400	200	192	96.0	233	116.5
Antimony	10	5.0	4.8	96.0	5.1	102.0
Arsenic	20	10	10.2	102.0	10.8	108.0
Barium	400	200	anr			
Beryllium	10	5.0	anr			
Cadmium	10	5.0	5.1	102.0	5.3	106.0
Calcium	2000	1000	1020	102.0	1070	107.0
Chromium	20	10	9.9	99.0	11.1	111.0
Cobalt	100	50	anr			
Copper	50	25	anr			
Iron	600	300	303	101.0	353	117.7
Lead	10	5.0	anr			
Magnesium	10000	5000	4950	99.0	5000	100.0
Manganese	30	15	anr			
Molybdenum	100	50	anr			
Nickel	80	40	anr			
Potassium	20000	10000	9940	99.4	9900	99.0
Selenium	20	10	8.4	84.0	10.0	100.0
Silver	20	10	anr			
Sodium	20000	10000	9950	99.5	9990	99.9
Strontium	20	10	anr			
Thallium	20	10	anr			
Tin	100	50	anr			
Titanium	20	10	anr			
Vanadium	100	50	anr			
Zinc	40	20	anr			

(*) Outside of QC limits
(anr) Analyte not requested

INTERFERING ELEMENT CHECK STANDARDS SUMMARY
Part 1 - ICSA and ICSAB Standards

Login Number: FA7318
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA082213M1.ICP Date Analyzed: 08/22/13 Methods: SW846 6010C
QC Limits: 80 to 120 % Recovery Run ID: MA10985 Units: ug/l

Time:			08:31		08:39		17:50		17:54	
Sample ID:	ICSA	ICSAB	ICSA1		ICSAB1		ICSA2		ICSAB2	
Metal	True	True	Results	% Rec	Results	% Rec	Results	% Rec	Results	% Rec
Aluminum	500000	500000	485000	97.0	507000	101.4	487000	97.4	497000	99.4
Antimony		1000	1.7		1010	101.0	1.4		1010	101.0
Arsenic		1000	0.30		1010	101.0	-0.70		1010	101.0
Barium		500	0.0		512	102.4	0.20		513	102.6
Beryllium		500	-0.20		491	98.2	-0.10		492	98.4
Cadmium		1000	0.0		917	91.7	1.0		931	93.1
Calcium	500000	500000	460000	92.0	466000	93.2	466000	93.2	464000	92.8
Chromium		500	0.0		483	96.6	0.20		485	97.0
Cobalt		500	1.0		458	91.6	1.3		459	91.8
Copper		500	0.30		534	106.8	-0.40		528	105.6
Iron	200000	200000	180000	90.0	184000	92.0	179000	89.5	179000	89.5
Lead		1000	1.0		952	95.2	-1.1		950	95.0
Magnesium	500000	500000	478000	95.6	490000	98.0	482000	96.4	485000	97.0
Manganese		500	-0.20		494	98.8	0.30		502	100.4
Molybdenum		1000	0.60		924	92.4	1.0		923	92.3
Nickel		1000	0.60		907	90.7	0.50		915	91.5
Potassium			221		77.4		232		91.0	
Selenium		1000	1.4		976	97.6	3.0		974	97.4
Silver		1000	0.30		1030	103.0	0.60		1020	102.0
Sodium			118		91.2		128		135	
Strontium		1000	11.8 (a)		1010	101.0	12.0		1010	101.0
Thallium		1000	-0.20		944	94.4	-0.70		938	93.8
Tin		1000	3.1		925	92.5	3.0		931	93.1
Titanium		1000	-3.8		979	97.9	-3.5		996	99.6
Vanadium		500	0.20		486	97.2	-0.10		489	97.8
Zinc		1000	0.0		923	92.3	0.30		937	93.7

(*) Outside of QC limits
(anr) Analyte not requested
(a) Verified trace level impurity.

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: FA7318
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

QC Batch ID: MP25706
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 08/21/13

Metal	RL	IDL	MDL	MB raw	final
Aluminum	200	15	15	3.3	<200
Antimony	6.0	1.3	1.3	-0.80	<6.0
Arsenic	10	1.6	2.5	0.60	<10
Barium	200	1	1		
Beryllium	4.0	.5	.5		
Cadmium	5.0	.5	.5	-0.10	<5.0
Calcium	1000	50	50	11.2	<1000
Chromium	10	1.8	2	0.0	<10
Cobalt	50	.5	.5		
Copper	25	1	1		
Iron	300	29	29	7.8	<300
Lead	5.0	1.1	1.1		
Magnesium	5000	74	74	8.6	<5000
Manganese	15	.7	.7		
Molybdenum	50	.6	1		
Nickel	40	.5	.5		
Potassium	10000	200	200	-4.6	<10000
Selenium	10	2	2	0.70	<10
Silver	10	.5	.5		
Sodium	10000	500	500	48.2	<10000
Strontium	10	.5	.5		
Thallium	10	1.3	1.3		
Tin	50	.7	1.8		
Titanium	10	.9	1		
Vanadium	50	.5	1		
Zinc	20	3	5		

Associated samples MP25706: FA7318-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FA7318
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

QC Batch ID: MP25706
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date:			08/21/13					08/21/13	
Metal	FA7318-1 Original	DUP	RPD	QC Limits	FA7318-1 Original	MS	Spikelot MPFLICP2	% Rec	QC Limits
Aluminum	734000	824000	11.6	0-20	734000	710000	27000	-88.9(b)	80-120
Antimony	0.00	0.00 (a)	NC	0-20	0.00	364 (a)	500	72.8N(c)	80-120
Arsenic	140	161 (a)	14.0	0-20	140	1530 (a)	2000	69.5N(c)	80-120
Barium	anr								
Beryllium	anr								
Cadmium	1510	1710 (a)	12.4	0-20	1510	1500 (a)	50	-20.0(b)	80-120
Calcium	462000	519000(a	11.6	0-20	462000	455000(a	25000	-28.0(b)	80-120
Chromium	1000	1130 (a)	12.2	0-20	1000	1100 (a)	200	50.0 (b)	80-120
Cobalt	anr								
Copper	anr								
Iron	769000	859000	11.1	0-20	769000	741000	26000	-107.7(b	80-120
Lead	anr								
Magnesium	519000	582000	11.4	0-20	519000	507000	25000	-48.0(b)	80-120
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium	222000	250000	11.9	0-20	222000	227000	25000	20.0 (b)	80-120
Selenium	50.3	49.0 (a)	2.6	0-20	50.3	1460 (a)	2000	70.5N(c)	80-120
Silver	anr								
Sodium	380000	429000	12.1	0-20	380000	378000	25000	-8.0 (b)	80-120
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium	anr								
Zinc	anr								

Associated samples MP25706: FA7318-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) Elevated reporting limit(s) due to matrix interference.
(b) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.
(c) Spike recovery indicates possible matrix interference.

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FA7318
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

QC Batch ID: MP25706 Methods: SW846 6010C
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 08/21/13

Metal	FA7318-1 Original	MSD	Spikelot MPFLICP2	% Rec	MSD RPD	QC Limit
Aluminum	734000	671000	27000	-233.3(a	5.6	20
Antimony	0.00	346 (b)	500	69.2N(c)	5.1	20
Arsenic	140	1460 (b)	2000	66.0N(c)	4.7	20
Barium	anr					
Beryllium	anr					
Cadmium	1510	1430 (b)	50	-160.0(a	4.8	20
Calcium	462000	431000(b	25000	-124.0(a	5.4	20
Chromium	1000	1050 (b)	200	25.0 (a)	4.7	20
Cobalt	anr					
Copper	anr					
Iron	769000	703000	26000	-253.8(a	5.3	20
Lead	anr					
Magnesium	519000	480000	25000	-156.0(a	5.5	20
Manganese	anr					
Molybdenum						
Nickel	anr					
Potassium	222000	215000	25000	-28.0(a)	5.4	20
Selenium	50.3	1400 (b)	2000	67.5N(c)	4.2	20
Silver	anr					
Sodium	380000	358000	25000	-88.0(a)	5.4	20
Strontium						
Thallium	anr					
Tin						
Titanium						
Vanadium	anr					
Zinc	anr					

Associated samples MP25706: FA7318-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.
(b) Elevated reporting limit(s) due to matrix interference.
(c) Spike recovery indicates possible matrix interference.

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: FA7318
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

QC Batch ID: MP25706
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 08/21/13

Metal	BSP Result	Spikelot MPFLICP2	% Rec	QC Limits
Aluminum	27900	27000	103.3	80-120
Antimony	519	500	103.8	80-120
Arsenic	2090	2000	104.5	80-120
Barium	anr			
Beryllium	anr			
Cadmium	51.5	50	103.0	80-120
Calcium	26100	25000	104.4	80-120
Chromium	211	200	105.5	80-120
Cobalt	anr			
Copper	anr			
Iron	26900	26000	103.5	80-120
Lead	anr			
Magnesium	25600	25000	102.4	80-120
Manganese	anr			
Molybdenum				
Nickel	anr			
Potassium	25000	25000	100.0	80-120
Selenium	2100	2000	105.0	80-120
Silver	anr			
Sodium	25100	25000	100.4	80-120
Strontium				
Thallium	anr			
Tin				
Titanium				
Vanadium	anr			
Zinc	anr			

Associated samples MP25706: FA7318-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: FA7318
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

QC Batch ID: MP25706
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 08/21/13

Metal	FA7318-1 Original	SDL 10:50%DIF		QC Limits
Aluminum	734000	1000000	36.6*(a)	0-10
Antimony	0.00	258	NC	0-10
Arsenic	140	430	207.7(b)	0-10
Barium	anr			
Beryllium	anr			
Cadmium	1510	2270	50.2*(a)	0-10
Calcium	462000	653000	41.3*(a)	0-10
Chromium	1000	1540	53.0*(a)	0-10
Cobalt	anr			
Copper	anr			
Iron	769000	1080000	40.5*(a)	0-10
Lead	anr			
Magnesium	519000	725000	39.7*(a)	0-10
Manganese	anr			
Molybdenum				
Nickel	anr			
Potassium	222000	327000	47.3*(a)	0-10
Selenium	50.3	232	361.2(b)	0-10
Silver	anr			
Sodium	380000	545000	43.6*(a)	0-10
Strontium				
Thallium	anr			
Tin				
Titanium				
Vanadium	anr			
Zinc	anr			

Associated samples MP25706: FA7318-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Serial dilution indicates possible matrix interference.
(b) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

POST DIGESTATE SPIKE SUMMARY

Login Number: FA7318
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

QC Batch ID: MP25706
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 08/21/13

Metal	Sample ml	Final ml	FA7318-1 Raw	Corr.**	PS ug/l	Spike ml	Spike ug/ml	Spike ug/l	% Rec	QC Limits
Aluminum	9.8	10	733700	719026	789000	0.2	125	2500	2799.0*a	80-120
Antimony	9.8	10			108.6	0.2	5	100	108.6	80-120
Arsenic	9.8	10	139.8	137.004	253.7	0.2	5	100	116.7	80-120
Barium										
Beryllium										
Cadmium	9.8	10	1512	1481.76	1693	0.2	2.5	50	422.5*(a	80-120
Calcium	9.8	10	461900	452662	497200	0.2	250	5000	890.8*(a	80-120
Chromium	9.8	10	1004	983.92	1132	0.2	2.5	50	296.2*(a	80-120
Cobalt										
Copper										
Iron	9.8	10	768900	753522	823900	0.2	150	3000	2345.9*a	80-120
Lead										
Magnesium	9.8	10	519000	508620	559000	0.2	250	5000	1007.6*a	80-120
Manganese										
Molybdenum										
Nickel										
Potassium	9.8	10	221700	217266	248300	0.2	500	10000	310.3*(a	80-120
Selenium	9.8	10	50.3	49.294	146.2	0.2	5	100	96.9	80-120
Silver										
Sodium	9.8	10	379700	372106	417700	0.2	500	10000	455.9*(a	80-120
Strontium										
Thallium										
Tin										
Titanium										
Vanadium										
Zinc										

Associated samples MP25706: FA7318-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(**) Corr. sample result = Raw * (sample volume / final volume)
(anr) Analyte not requested
(a) Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

Southeast ACCUTEST LABORATORIES

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries
- Instrument Runlogs/QC

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: FA7318
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Alkalinity, Total as CaCO3	GN57357	5.0	1.0	mg/l	250	253	101.0	90-113%
Chloride	GP22319/GN57324	2.0	0.0	mg/l	50	49.8	99.6	90-110%
Fluoride	GP22352/GN57401	0.20	0.0	mg/l	2.5	2.39	95.6	90-110%
Nitrogen, Nitrate	GP22319/GN57324	0.10	0.0	mg/l	2.5	2.63	105.2	90-110%
Phosphate, Ortho	GP22309/GN57307	0.10	0.0	mg/l	0.300	0.29	96.8	83-116%
Phosphorus, Total	GP22326/GN57361	0.10	0.0	mg/l	.300	0.33	108.0	81-118%
Solids, Total Dissolved	GN57344	100	17.0	mg/l				
Specific Conductivity	GN57412	1.0	0.0	umhos/cm				
Sulfate	GP22319/GN57324	2.0	0.0	mg/l	50	49.4	98.8	90-110%

Associated Samples:
Batch GN57344: FA7318-1
Batch GN57357: FA7318-1
Batch GN57412: FA7318-1
Batch GP22309: FA7318-1F
Batch GP22319: FA7318-1
Batch GP22326: FA7318-1
Batch GP22352: FA7318-1
(*) Outside of QC limits

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: FA7318
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Alkalinity, Total as CaCO3	GN57357	FA7356-1	mg/l	266	264	0.6	0-20%
Solids, Total Dissolved	GN57344	FA7349-8	mg/l	296	298	0.7	0-5%
Specific Conductivity	GN57412	FA7318-1	umhos/cm	12500	12500	0.2	0-10%
pH	GN57305	FA7294-1	su	7.21	7.19	0.3	0-10%

Associated Samples:
Batch GN57305: FA7318-1
Batch GN57344: FA7318-1
Batch GN57357: FA7318-1
Batch GN57412: FA7318-1
(*) Outside of QC limits

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: FA7318
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Chloride	GP22319/GN57324	FA7300-1	mg/l	3.9	50	52.9	98.0	90-110%
Fluoride	GP22352/GN57401	FA7374-1	mg/l	0.30 U	2.5	3.1	124.0N(a)	90-110%
Nitrogen, Nitrate	GP22319/GN57324	FA7300-1	mg/l	0.57	2.5	3.1	101.2	90-110%
Phosphate, Ortho	GP22309/GN57307	FA7318-1F	mg/l	1390	3000	4170	92.6	83-116%
Phosphorus, Total	GP22326/GN57361	FA7396-5	mg/l	2.9	.300	4.0	344.0(a)	81-118%
Sulfate	GP22319/GN57324	FA7300-1	mg/l	1.5	50	50.1	97.2	90-110%

Associated Samples:
Batch GP22309: FA7318-1F
Batch GP22319: FA7318-1
Batch GP22326: FA7318-1
Batch GP22352: FA7318-1
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(a) Spike recovery indicates possible matrix interference.

MATRIX SPIKE DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: FA7318
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MSD Result	RPD	QC Limit
Chloride	GP22319/GN57324	FA7300-1	mg/l	3.9	50	53.5	1.1	20%
Fluoride	GP22352/GN57401	FA7374-1	mg/l	0.30 U	2.5	3.1	0.0	20%
Nitrogen, Nitrate	GP22319/GN57324	FA7300-1	mg/l	0.57	2.5	3.1	0.0	20%
Phosphate, Ortho	GP22309/GN57307	FA7318-1F	mg/l	1390	3000	4110	1.3	26%
Phosphorus, Total	GP22326/GN57361	FA7396-5	mg/l	2.9	.300	4.00	1.1	22%
Sulfate	GP22319/GN57324	FA7300-1	mg/l	1.5	50	50.9	1.6	20%

Associated Samples:
Batch GP22309: FA7318-1F
Batch GP22319: FA7318-1
Batch GP22326: FA7318-1
Batch GP22352: FA7318-1
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA7318
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: 313160801.TXT Date Analyzed: 08/16/13 Methods: EPA 300/SW846 9056A
Analyst: AA Run ID: GN57324
Parameters: Chloride,Nitrogen, Nitrate,Sulfate

Time	Sample Description	Dilution Factor	PS Recov	Comments
08:42	GN57324-CCV1	1		
08:58	GP22319-MB1	1		
09:13	GP22319-B1	1		
10:01	ZZZZZZ	5		
10:17	ZZZZZZ	2		
10:33	ZZZZZZ	1		
10:49	FA7300-1	1		(sample used for QC only; not part of login FA7318)
11:05	FA7300-2	1		(sample used for QC only; not part of login FA7318)
11:37	GN57324-CCV2	1		
11:53	GN57324-CCB1	1		
12:25	ZZZZZZ	1		
12:40	ZZZZZZ	1		
12:56	ZZZZZZ	1		
13:12	ZZZZZZ	1		
13:28	FA7318-1	100		
13:44	ZZZZZZ	5		
14:00	ZZZZZZ	10		
15:00	ZZZZZZ	25		
15:16	GN57324-CCV3	1		
15:32	GN57324-CCB2	1		
15:48	ZZZZZZ	5		
16:04	GP22319-S1	1		
16:20	GP22319-S2	1		
16:36	GP22319-S3	1		
16:51	GP22319-S4	1		
17:06	GN57324-CCV4	1		
17:22	GN57324-CCB3	1		

Refer to raw data for calibration curve and standards.

Instrument QC Summary
Inorganics Analyses

Login Number: FA7318
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: 313160801.TXT Date Analyzed: 08/16/13 Methods: EPA 300/SW846 9056A
Run ID: GN57324 Units: mg/l

Sample Number	Parameter	Result	RL	IDL/MDL	True Value	% Recov.	QC Limits
GN57324-CCV1	Chloride	49.5	2.0	0.80	50	99.0	90-110
GN57324-CCV1	Nitrogen, Nitrate	2.5	0.10	0.050	2.5	100.0	90-110
GN57324-CCV1	Sulfate	49.5	2.0	0.60	50	99.0	90-110
GN57324-CCV2	Chloride	49.6	2.0	0.80	50	99.2	90-110
GN57324-CCV2	Nitrogen, Nitrate	2.5	0.10	0.050	2.5	100.0	90-110
GN57324-CCV2	Sulfate	49.3	2.0	0.60	50	98.6	90-110
GN57324-CCB1	Chloride	0.80 U	2.0	0.80			
GN57324-CCB1	Nitrogen, Nitrate	0.050 U	0.10	0.050			
GN57324-CCB1	Sulfate	0.60 U	2.0	0.60			
GN57324-CCV3	Chloride	49.7	2.0	0.80	50	99.4	90-110
GN57324-CCV3	Nitrogen, Nitrate	2.5	0.10	0.050	2.5	100.0	90-110
GN57324-CCV3	Sulfate	49.4	2.0	0.60	50	98.8	90-110
GN57324-CCB2	Chloride	0.80 U	2.0	0.80			
GN57324-CCB2	Nitrogen, Nitrate	0.050 U	0.10	0.050			
GN57324-CCB2	Sulfate	0.60 U	2.0	0.60			
GN57324-CCV4	Chloride	49.6	2.0	0.80	50	99.2	90-110
GN57324-CCV4	Nitrogen, Nitrate	2.5	0.10	0.050	2.5	100.0	90-110
GN57324-CCV4	Sulfate	49.4	2.0	0.60	50	98.8	90-110
GN57324-CCB3	Chloride	0.80 U	2.0	0.80			
GN57324-CCB3	Nitrogen, Nitrate	0.050 U	0.10	0.050			
GN57324-CCB3	Sulfate	0.60 U	2.0	0.60			

(!) Outside of QC limits

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA7318
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: 213230801.TXT Date Analyzed: 08/23/13 Methods: EPA 300/SW846 9056A
Analyst: AA Run ID: GN57401
Parameters: Fluoride

Time	Sample Description	Dilution Factor	PS Recov	Comments
10:14	GN57401-CCV1	1		
10:31	GP22352-MB1	1		
10:48	GP22352-B1	1		
11:05	ZZZZZZ	5		
11:21	FA7374-1	5		(sample used for QC only; not part of login FA7318)
11:38	ZZZZZZ	5		
11:55	ZZZZZZ	1		
12:12	ZZZZZZ	5		
12:29	FA7318-1	2000		
12:46	GP22352-S1	5		
13:03	GP22352-S2	5		
13:20	GN57401-CCV2	1		
13:37	GP22333-MB1	1		
13:54	GP22333-B1	1		
14:11	FA7320-2	5		(sample used for QC only; not part of login FA7318)
14:28	GP22333-S1	5		
14:45	GP22333-S2	5		
15:19	GN57401-CCV3	1		
15:36	GN57401-CCB1	1		

Refer to raw data for calibration curve and standards.

Instrument QC Summary
Inorganics Analyses

Login Number: FA7318
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: 213230801.TXT Date Analyzed: 08/23/13 Methods: EPA 300/SW846 9056A
Run ID: GN57401 Units: mg/l

Sample Number	Parameter	Result	RL	IDL/MDL	True Value	% Recov.	QC Limits
GN57401-CCV1	Fluoride	2.5	0.20	0.060	2.5	100.0	90-110
GN57401-CCV2	Fluoride	2.6	0.20	0.060	2.5	104.0	90-110
GN57401-CCV3	Fluoride	2.7	0.20	0.060	2.5	108.0	90-110
GN57401-CCB1	Fluoride	0.060 U	0.20	0.060			

(!) Outside of QC limits

Southeast ACCUTEST LABORATORIES

09/06/13

Technical Report for

WSP Environment & Energy

Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID 36785.01

Accutest Job Number: FA7521

Sampling Date: 08/22/13

Report to:

WSP Environment & Energy
205 West Park Street
Jackson, MO 63755
tim.huff@wspgroup.com

ATTN: Tim Huff

Total number of pages in report: **60**

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Harry Behzadi, Ph.D.
Laboratory Director

Client Service contact: Andrea Colby 407-425-6700

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Sample Summary

WSP Environment & Energy

Job No: FA7521

Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID
Project No: 36785.01

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA7521-1	08/22/13	09:05	TP	08/23/13	AQ	Ground Water	A-34-022
FA7521-1F	08/22/13	09:05	TP	08/23/13	AQ	Groundwater Filtered	A-34-022

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: WSP Environment & Energy **Job No:** FA7521

Site: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID **Report Date:** 9/6/2013 5:49:48 PM

1 Sample(s) was collected on 08/22/2013 and was received at Accutest SE on 08/23/2013 properly preserved, at 3 Deg. C and intact. The Sample received an Accutest job number of FA7521. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Metals By Method SW846 6010C

Matrix: AQ **Batch ID:** MP25726

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA7533-1DUP, FA7533-1MS, FA7533-1MSD, FA7533-1PS, FA7533-1SDL were used as the QC samples for metals.

Matrix Spike Recovery(s) for Calcium, Sodium are outside control limits. Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

RPD(s) for Duplicate for Arsenic, Selenium are outside control limits for sample MP25726-D1. RPD acceptable due to low duplicate and sample concentrations.

RPD(s) for Serial Dilution for Arsenic, Chromium, Potassium, Selenium are outside control limits for sample MP25726-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

MP25726-PS1 for Calcium: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP25726-PS1 for Sodium: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

FA7521-1 for Antimony: Elevated reporting limit(s) due to matrix interference.

FA7521-1 for Arsenic: Elevated reporting limit(s) due to matrix interference.

FA7521-1 for Cadmium: Elevated reporting limit(s) due to matrix interference.

FA7521-1 for Calcium: Elevated reporting limit(s) due to matrix interference.

FA7521-1 for Chromium: Elevated reporting limit(s) due to matrix interference.

FA7521-1 for Selenium: Elevated reporting limit(s) due to matrix interference.

Wet Chemistry By Method EPA 120.1

Matrix: AQ **Batch ID:** GN57397

All method blanks for this batch meet method specific criteria.

Sample(s) FA7521-1DUP was used as the QC sample for Specific Conductivity.

The following samples were run outside of holding time for method EPA 120.1: FA7521-1

Wet Chemistry By Method EPA 300/SW846 9056A

Matrix: AQ **Batch ID:** GP22355

All samples were prepped within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA7494-1MS, FA7494-1MSD were used as the QC samples for Chloride, Nitrogen, Nitrate, Sulfate.

FA7521-1 for Chloride: Dilution required due to matrix interference.

FA7521-1 for Nitrogen, Nitrate: Dilution required due to matrix interference.

Wet Chemistry By Method EPA 300/SW846 9056A

Matrix: AQ **Batch ID:** GP22376

All samples were prepped within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA7464-6MSD, FA7464-6MS were used as the QC samples for Fluoride.

Matrix Spike Recovery(s) for Fluoride are outside control limits. Spike recovery indicates possible matrix interference. For method performance in a clean matrix, refer to Blank Spike.

Wet Chemistry By Method EPA 365.3

Matrix: AQ **Batch ID:** GP22350

All samples were prepped within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA7521-1FMS, FA7521-1FMSD were used as the QC samples for Phosphate, Ortho.

Matrix: AQ **Batch ID:** GP22398

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA7668-5MS, FA7668-5MSD were used as the QC samples for Phosphorus, Total.

Wet Chemistry By Method SM 4500H B/SW 9040C

Matrix: AQ **Batch ID:** GN57398

Sample(s) FA7497-2DUP was used as the QC sample for pH.

FA7521-1 for pH: Field analysis required. Received out of hold time and analyzed by request.

Wet Chemistry By Method SM19 2320B

Matrix: AQ **Batch ID:** GN57539

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA7501-18DUP was used as the QC sample for Alkalinity, Total as CaCO3.

Wet Chemistry By Method SM19 2540C

Matrix: AQ **Batch ID:** GN57457

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA7501-21DUP was used as the QC sample for Solids, Total Dissolved.

Accutest Laboratories Southeast (ALSE) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALSE and as stated on the COC. ALSE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the ALSE Quality Manual except as noted above. This report is to be used in its entirety. ALSE is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

_____

Kim Benham, Client Services (signature on file)

Date: September 6, 2013

Summary of Hits

Job Number: FA7521
Account: WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID
Collected: 08/22/13

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA7521-1	**A-34-022**					
Aluminum		784	2.0	0.15	mg/l	SW846 6010C
Arsenic [a]		0.129	0.10	0.025	mg/l	SW846 6010C
Cadmium [a]		1.61	0.050	0.0050	mg/l	SW846 6010C
Calcium [a]		465	10	0.50	mg/l	SW846 6010C
Chromium [a]		1.01	0.10	0.020	mg/l	SW846 6010C
Iron		863	3.0	0.29	mg/l	SW846 6010C
Magnesium		543	50	0.74	mg/l	SW846 6010C
Potassium		217	100	2.0	mg/l	SW846 6010C
Sodium		340	100	5.0	mg/l	SW846 6010C
Chloride [b]		140 J	200	80	mg/l	EPA 300/SW846 9056A
Fluoride		3630	400	120	mg/l	EPA 300/SW846 9056A
Nitrogen, Nitrate [b]		5.3 J	10	5.0	mg/l	EPA 300/SW846 9056A
Phosphorus, Total		4980	1000	280	mg/l	EPA 365.3
Solids, Total Dissolved		15500	1000	100	mg/l	SM19 2540C
Specific Conductivity		12400	1.0	1.0	umhos/cm	EPA 120.1
Sulfate		8790	200	60	mg/l	EPA 300/SW846 9056A
pH [c]		2.47			su	SM 4500H B/SW 9040C
FA7521-1F	**A-34-022**					
Phosphate, Ortho		1240	500	100	mg/l	EPA 365.3

(a) Elevated reporting limit(s) due to matrix interference.
(b) Dilution required due to matrix interference.
(c) Field analysis required. Received out of hold time and analyzed by request.

Southeast ACCUTEST LABORATORIES

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Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: A-34-022
Lab Sample ID: FA7521-1
Matrix: AQ - Ground Water
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

Date Sampled: 08/22/13
Date Received: 08/23/13
Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	784	2.0	0.15	mg/l	10	08/26/13	08/28/13	LM	SW846 6010C [1]	SW846 3010A [2]
Antimony [a]	0.013 U	0.060	0.013	mg/l	10	08/26/13	08/28/13	LM	SW846 6010C [1]	SW846 3010A [2]
Arsenic [a]	0.129	0.10	0.025	mg/l	10	08/26/13	08/28/13	LM	SW846 6010C [1]	SW846 3010A [2]
Cadmium [a]	1.61	0.050	0.0050	mg/l	10	08/26/13	08/28/13	LM	SW846 6010C [1]	SW846 3010A [2]
Calcium [a]	465	10	0.50	mg/l	10	08/26/13	08/28/13	LM	SW846 6010C [1]	SW846 3010A [2]
Chromium [a]	1.01	0.10	0.020	mg/l	10	08/26/13	08/28/13	LM	SW846 6010C [1]	SW846 3010A [2]
Iron	863	3.0	0.29	mg/l	10	08/26/13	08/28/13	LM	SW846 6010C [1]	SW846 3010A [2]
Magnesium	543	50	0.74	mg/l	10	08/26/13	08/28/13	LM	SW846 6010C [1]	SW846 3010A [2]
Potassium	217	100	2.0	mg/l	10	08/26/13	08/28/13	LM	SW846 6010C [1]	SW846 3010A [2]
Selenium [a]	0.020 U	0.10	0.020	mg/l	10	08/26/13	08/28/13	LM	SW846 6010C [1]	SW846 3010A [2]
Sodium	340	100	5.0	mg/l	10	08/26/13	08/28/13	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10999
(2) Prep QC Batch: MP25726

(a) Elevated reporting limit(s) due to matrix interference.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: A-34-022
Lab Sample ID: FA7521-1
Matrix: AQ - Ground Water
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

Date Sampled: 08/22/13
Date Received: 08/23/13
Percent Solids: n/a

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Alkalinity, Bicarbonate as CaC	5.0 U	5.0	5.0	mg/l	1	09/04/13 13:45	AR	SM18 4500CO2D
Alkalinity, Carbonate	5.0 U	5.0	5.0	mg/l	1	09/04/13 13:45	AR	SM18 4500CO2D
Alkalinity, Total as CaCO3	0.60 U	5.0	0.60	mg/l	1	09/04/13 13:45	AC	SM19 2320B
Chloride [a]	140 J	200	80	mg/l	100	08/23/13 16:23	AA	EPA 300/SW846 9056A
Fluoride	3630	400	120	mg/l	2000	08/29/13 12:01	AA	EPA 300/SW846 9056A
Nitrogen, Nitrate [a]	5.3 J	10	5.0	mg/l	100	08/23/13 16:23	AA	EPA 300/SW846 9056A
Phosphorus, Total	4980	1000	280	mg/l	10000	09/03/13 13:13	LE	EPA 365.3
Solids, Total Dissolved	15500	1000	100	mg/l	10	08/29/13 15:25	KC	SM19 2540C
Specific Conductivity	12400	1.0	1.0	umhos/cm	1	08/23/13 14:25	AC	EPA 120.1
Sulfate	8790	200	60	mg/l	100	08/23/13 16:23	AA	EPA 300/SW846 9056A
pH [b]	2.47			su	1	08/23/13 12:25	AC	SM 4500H B/SW 9040C

(a) Dilution required due to matrix interference.
(b) Field analysis required. Received out of hold time and analyzed by request.

RL = Reporting Limit
MDL = Method Detection Limit
U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	A-34-022		
Lab Sample ID:	FA7521-1F	**Date Sampled:**	08/22/13
Matrix:	AQ - Groundwater Filtered	**Date Received:**	08/23/13
		Percent Solids:	n/a
Project:	Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Phosphate, Ortho	1240	500	100	mg/l	5000	08/23/13 14:30	AC	EPA 365.3

RL = Reporting Limit
MDL = Method Detection Limit

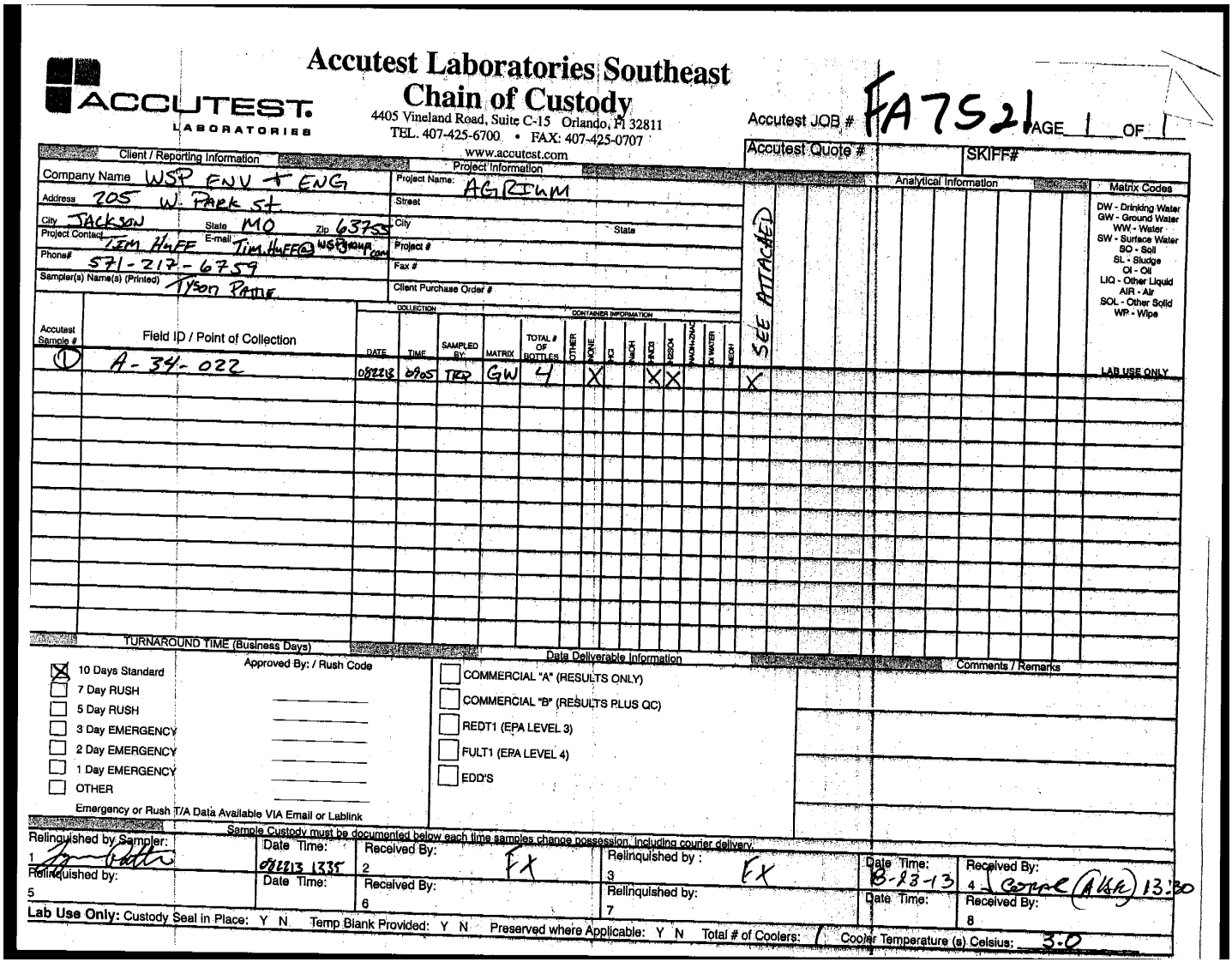
U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody



Accutest Laboratories Southeast
Chain of Custody

ACCUTEST LABORATORIES

4405 Vineland Road, Suite C-15 Orlando, Fl 32811
TEL. 407-425-6700 • FAX: 407-425-0707
www.accutest.com

Accutest JOB # FA7521 PAGE 1 OF 1

Accutest Quote #

SKIFF#

Client / Reporting Information

Company Name: WSP ENV + ENG
Address: 205 W. Park St
City: JACKSON State: MO Zip: 63755
Project Contact: TIM HUFF E-mail: TIM.HUFF@WSPgroup.com
Phone#: 571-217-6759
Sampler(s) Name(s) (Printed): Tyson Pattie

Project Information

Project Name: AGRIUM
Street
City State
Project #
Fax #
Client Purchase Order #

Analytical Information

SEE ATTACHED

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL - Sludge
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe

Accutest Sample #	Field ID / Point of Collection	DATE	TIME	SAMPLED BY	MATRIX	TOTAL # OF BOTTLES	OTHER	NONE	HCl	NaOH	HNO3	H2SO4	NaOH+ZNAC	DI WATER	MEOH	SEE ATTACHED	LAB USE ONLY
1	A-34-022	082213	0905	TRP	GW	4		X			X	X				X	

TURNAROUND TIME (Business Days)

Approved By: / Rush Code

- [x] 10 Days Standard
- [ ] 7 Day RUSH
- [ ] 5 Day RUSH
- [ ] 3 Day EMERGENCY
- [ ] 2 Day EMERGENCY
- [ ] 1 Day EMERGENCY
- [ ] OTHER

Emergency or Rush T/A Data Available VIA Email or Lablink

Data Deliverable Information

- [ ] COMMERCIAL "A" (RESULTS ONLY)
- [ ] COMMERCIAL "B" (RESULTS PLUS QC)
- [ ] REDT1 (EPA LEVEL 3)
- [ ] FULT1 (EPA LEVEL 4)
- [ ] EDD'S

Comments / Remarks

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished by:	Date Time:	Received By:
1 [signature]	082213 1335	2 FX	3 FX	8-23-13	4 [signature] (AKSR) 13:30
Relinquished by: 5	Date Time:	Received By: 6	Relinquished by: 7	Date Time:	Received By: 8

Lab Use Only: Custody Seal in Place: Y N Temp Blank Provided: Y N Preserved where Applicable: Y N Total # of Coolers: 1 Cooler Temperature (s) Celsius: 3.0

5.1

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FA7521: Chain of Custody
Page 1 of 3

O-Phos - Field Filtered

Note: A-34-022 High Phosphate

Analyte List #2 (groundwater samples and groundwater sampling equipment blanks)

- total dissolved solids (TDS)
- Total metals - aluminum, antimony, arsenic, cadmium, calcium, chromium, iron, magnesium, potassium, selenium, and sodium
- chloride, fluoride, nitrate as N, and sulfate
- pH
- total phosphorous
- dissolved orthophosphate
- bicarbonate and carbonate alkalinity as CaCO3
- specific conductance

NOTE – If turbidity at the time of sampling is greater than 50 NTU, collect dissolved metals sample and submit to laboratory ON HOLD for the same analyte list as the total metals sample.

5.1 5

FA7521: Chain of Custody
Page 2 of 3

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: FA 7521 CLIENT: WSP PROJECT: AGAUM

DATE/TIME RECEIVED: 8-23-13 13:30 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 1

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 8033 5737 3984

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET
- [ ] WET ICE PRESENT

TRIP BLANK INFORMATION

- [ ] TRIP BLANK PROVIDED
- [X] TRIP BLANK NOT PROVIDED
- [X] TRIP BLANK NOT ON COC
- [ ] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [ ] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM_____ 5-GRAM_____

NUMBER OF 5035 FIELD KITS ? _____

NUMBER OF LAB FILTERED METALS ? _____

TEMPERATURE INFORMATION

- [ ] IR THERM ID 1 CORR. FACTOR +0.4
- [ ] OBSERVED TEMPS: 2.6
- [ ] CORRECTED TEMPS: 3.0

SAMPLE INFORMATION

- [ ] SAMPLE LABELS PRESENT ON ALL BOTTLES
- [ ] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] 5035 FIELD KIT FROZEN WITHIN 48 HOUR'S
- [ ] RESIDUAL CHLORINE PRESENT

{APPICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

SUMMARY OF COMMENTS:

TECHNICIAN SIGNATURE/DATE: 8-23-13 REVIEWER SIGNATURE/DATE: 08/23/13

NF 12/10

receipt confirmation 122910.xls

FA7521: Chain of Custody
Page 3 of 3

Southeast ACCUTEST LABORATORIES

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Instrument Runlogs
- Initial and Continuing Calibration Blanks
- Initial and Continuing Calibration Checks
- High and Low Check Standards
- Interfering Element Check Standards
- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA7521
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB082713M1.ICP Date Analyzed: 08/27/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10993
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
08:01	MA10993-STD1	1		STDA
08:05	MA10993-STD2	1		STDB
08:09	MA10993-STD3	1		STDC
08:12	MA10993-STD4	1		STDD
08:16	MA10993-HSTD1	1		
08:23	MA10993-ICV1	1		
08:30	MA10993-ICB1	1		
08:34	MA10993-CRIA1	1		
08:41	MA10993-ICSA1	1		
08:53	MA10993-ICSAB1	1		
09:04	MA10993-CCV1	1		
09:10	MA10993-CCB1	1		
09:14	MP25726-MB1	1		
09:19	MP25726-B1	1		
09:23	FA7533-1	1		(sample used for QC only; not part of login FA7521)
09:27	MP25726-D1	1		
09:31	MP25726-SD1	5		
09:36	MP25726-PS1	1		
09:40	MP25726-S1	1		
09:44	MP25726-S2	1		
---------->	Last reportable sample/prep for job FA7521			
09:48	ZZZZZZ	1		
09:53	ZZZZZZ	1		
09:57	MA10993-CCV2	1		
10:01	MA10993-CCB2	1		
10:05	ZZZZZZ	1		
10:09	ZZZZZZ	1		
10:13	ZZZZZZ	1		
10:18	ZZZZZZ	1		
10:22	ZZZZZZ	1		
10:26	ZZZZZZ	1		
10:35	ZZZZZZ	1		
10:39	ZZZZZZ	1		
10:43	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA7521
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB082713M1.ICP Date Analyzed: 08/27/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10993
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
10:48	MA10993-CCV3	1		
10:51	MA10993-CCB3	1		
10:56	ZZZZZZ	1		
11:00	ZZZZZZ	1		
11:04	ZZZZZZ	1		
11:08	ZZZZZZ	1		
11:18	ZZZZZZ	1		
11:22	ZZZZZZ	1		
11:26	FA7454-1	5		(sample used for QC only; not part of login FA7521)
11:30	MP25719-D1	5		
11:35	MP25719-S1	5		
11:39	MA10993-CCV4	1		
11:43	MA10993-CCB4	1		
11:47	MP25719-S2	5		
11:51	MP25719-PS1	5		
11:55	MP25719-SD1	25		
11:59	ZZZZZZ	4		
12:04	ZZZZZZ	4		
12:08	ZZZZZZ	4		
12:12	ZZZZZZ	5		
12:16	ZZZZZZ	5		
12:21	ZZZZZZ	2		
12:25	MP25731-MB1	1		
12:29	MA10993-CCV5	1		
12:33	MA10993-CCB5	1		
12:37	MP25731-B1	1		
12:41	FA7507-1	1		(sample used for QC only; not part of login FA7521)
12:46	MP25731-D1	1		
12:50	MP25731-SD1	5		
12:55	MP25731-S1	1		
12:59	MP25731-S2	1		
13:03	ZZZZZZ	1		
13:07	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA7521
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB082713M1.ICP Date Analyzed: 08/27/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10993
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
13:12	ZZZZZZ	1		
13:16	ZZZZZZ	1		
13:20	MA10993-CCV6	1		
13:24	MA10993-CCB6	1		
13:29	ZZZZZZ	1		
13:33	ZZZZZZ	1		
13:37	ZZZZZZ	1		
13:42	MP25731-D2	1		
13:46	MP25731-MB2	1		
13:51	MP25731-B2	1		
13:55	MP25731-MB3	1		
13:59	MP25731-B3	1		
14:03	MA10993-CCV7	1		
14:07	MA10993-CCB7	1		
14:32	MA10993-CRIA2	1		
14:36	MA10993-ICSA2	1		
14:41	MA10993-ICSAB2	1		
14:45	MA10993-CCV8	1		
14:49	MA10993-CCB8	1		

----------> Last reportable CCB for job FA7521
Refer to raw data for calibration curve and standards.

INTERNAL STANDARD SUMMARY

Login Number: FA7521
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB082713M1.ICP Date Analyzed: 08/27/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10993
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
08:01	MA10993-STD1	5654	40305	7561	2336
08:05	MA10993-STD2	5536	38840	7642	2172
08:09	MA10993-STD3	5289	37386	7482	1955
08:12	MA10993-STD4	5057	36225	7419	1777
08:16	MA10993-HSTD1	5085	36353	7459	1780
08:23	MA10993-ICV1	5308	37271	7431	1958
08:30	MA10993-ICB1	5648 R	40112 R	7552 R	2329 R
08:34	MA10993-CRIA1	5564	39254	7483	2235
08:41	MA10993-ICSA1	4907	33322	7213	1790
08:53	MA10993-ICSAB1	4825	32867	7191	1730
09:04	MA10993-CCV1	5331	37178	7434	1946
09:10	MA10993-CCB1	5574	38899	7537	2259
09:14	MP25726-MB1	5579	39101	7624	2255
09:19	MP25726-B1	5400	37538	7546	2049
09:23	FA7533-1	5075	35717	7492	1902
09:27	MP25726-D1	5051	35714	7479	1895
09:31	MP25726-SD1	5439	38298	7658	2130
09:36	MP25726-PS1	5051	35375	7421	1876
09:40	MP25726-S1	5056	35416	7515	1837
09:44	MP25726-S2	5010	35175	7365	1822
09:48	ZZZZZZ	5019	35673	7394	1862
09:53	ZZZZZZ	5451	38330	7652	2103
09:57	MA10993-CCV2	5279	36711	7381	1921
10:01	MA10993-CCB2	5650	39845	7646	2296
10:05	ZZZZZZ	5366	37509	7509	2057
10:09	ZZZZZZ	5541	38866	7718	2165
10:13	ZZZZZZ	6272	43655	8735	2077
10:18	ZZZZZZ	5544	39335	7603	2243
10:22	ZZZZZZ	5371	37749	7548	2093
10:26	ZZZZZZ	5240	36767	7473	2009
10:35	ZZZZZZ	5530	39244	7744	2195
10:39	ZZZZZZ	5604	39326	7732	2251
10:43	ZZZZZZ	5597	39324	7672	2270

INTERNAL STANDARD SUMMARY

Login Number: FA7521
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB082713M1.ICP Date Analyzed: 08/27/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10993
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
10:48	MA10993-CCV3	5291	37052	7521	1936
10:51	MA10993-CCB3	5589	39524	7572	2271
10:56	ZZZZZZ	6095	41930	8709	1963
11:00	ZZZZZZ	5583	39513	7750	2254
11:04	ZZZZZZ	5585	39835	7727	2272
11:08	ZZZZZZ	5164	36279	7466	1959
11:18	ZZZZZZ	5296	37426	7656	1987
11:22	ZZZZZZ	5126	36038	7468	1930
11:26	FA7454-1	5976	41923	8376	2078
11:30	MP25719-D1	5961	41357	8397	2061
11:35	MP25719-S1	5858	40899	8304	2022
11:39	MA10993-CCV4	5289	37265	7520	1952
11:43	MA10993-CCB4	5585	39665	7560	2283
11:47	MP25719-S2	5929	41371	8355	2071
11:51	MP25719-PS1	5976	41513	8367	2082
11:55	MP25719-SD1	5674	39852	7778	2218
11:59	ZZZZZZ	6007	41677	8496	2067
12:04	ZZZZZZ	6043	42203	8510	2071
12:08	ZZZZZZ	6040	42215	8410	2098
12:12	ZZZZZZ	6130	42925	8533	2119
12:16	ZZZZZZ	6446	45120	8994	2155
12:21	ZZZZZZ	6146	42303	8689	2090
12:25	MP25731-MB1	5615	40227	7721	2303
12:29	MA10993-CCV5	5287	37226	7490	1952
12:33	MA10993-CCB5	5583	39717	7588	2288
12:37	MP25731-B1	5412	38367	7604	2086
12:41	FA7507-1	5355	37527	7568	2077
12:46	MP25731-D1	5368	37543	7583	2077
12:50	MP25731-SD1	5508	38836	7609	2199
12:55	MP25731-S1	5314	37030	7530	1973
12:59	MP25731-S2	5308	37050	7607	1979
13:03	ZZZZZZ	5324	37087	7559	2044
13:07	ZZZZZZ	5344	37509	7594	2074

INTERNAL STANDARD SUMMARY

Login Number: FA7521
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB082713M1.ICP Date Analyzed: 08/27/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10993
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
13:12	ZZZZZZ	5299	37101	7582	2034
13:16	ZZZZZZ	4985	35460	7763	2070
13:20	MA10993-CCV6	5380	37829	7677	1972
13:24	MA10993-CCB6	5621	39777	7608	2281
13:29	ZZZZZZ	5412	38707	7609	2069
13:33	ZZZZZZ	5411	37545	7631	2045
13:37	ZZZZZZ	5368	37283	7479	2056
13:42	MP25731-D2	5395	37469	7617	2069
13:46	MP25731-MB2	5380	37390	7611	2066
13:51	MP25731-B2	5329	36658	7626	1970
13:55	MP25731-MB3	5646	40028	7706	2297
13:59	MP25731-B3	5453	38346	7648	2088
14:03	MA10993-CCV7	5311	37255	7537	1943
14:07	MA10993-CCB7	5607	39892	7630	2290
14:32	MA10993-CRIA2	5541	38730	7532	2207
14:36	MA10993-ICSA2	4819	33040	7230	1773
14:41	MA10993-ICSAB2	4815	33229	7223	1746
14:45	MA10993-CCV8	5253	37146	7377	1936
14:49	MA10993-CCB8	5562	39454	7578	2286

R = Reference for ISTD limits. ! = Outside limits.

LEGEND:

Istd#	Parameter	Limits
Istd#1	Yttrium (2243)	60-125 %
Istd#2	Yttrium (3600)	60-125 %
Istd#3	Yttrium (3710)	60-125 %
Istd#4	Indium	60-125 %

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: FA7521
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB082713M1.ICP Date Analyzed: 08/27/13 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA10993 Units: ug/l

Time:			08:30		09:10		10:01		10:51	
Sample ID:			ICB1		CCB1		CCB2		CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	15	4.0	<200	1.6	<200	-1.4	<200	-9.4	<200
Antimony	6.0	1.3	1.0	<6.0	0.80	<6.0	0.10	<6.0	-0.40	<6.0
Arsenic	10	1.6	0.50	<10	0.30	<10	0.30	<10	0.30	<10
Barium	200	1	anr							
Beryllium	4.0	.5	anr							
Cadmium	5.0	.5	0.0	<5.0	0.0	<5.0	0.10	<5.0	0.10	<5.0
Calcium	1000	50	-1.9	<1000	3.3	<1000	3.5	<1000	3.1	<1000
Chromium	10	1.8	0.10	<10	-0.10	<10	0.10	<10	0.0	<10
Cobalt	50	.5	anr							
Copper	25	1	anr							
Iron	300	29	0.10	<300	4.6	<300	5.9	<300	6.6	<300
Lead	5.0	1.1	anr							
Magnesium	5000	74	-10	<5000	5.6	<5000	5.9	<5000	10.0	<5000
Manganese	15	.7	anr							
Molybdenum	50	.6	anr							
Nickel	40	.5	anr							
Potassium	10000	200	-200	<10000	-280	<10000	-240	<10000	-240	<10000
Selenium	10	2	0.50	<10	0.60	<10	1.2	<10	1.4	<10
Silver	10	.5	anr							
Sodium	10000	500	-220	<10000	-260	<10000	-220	<10000	-67	<10000
Strontium	10	.5								
Thallium	10	1.3	anr							
Tin	50	.7	anr							
Titanium	10	.9								
Vanadium	50	.5	anr							
Zinc	20	3	anr							

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: FA7521
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB082713M1.ICP Date Analyzed: 08/27/13 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA10993 Units: ug/l

Time: / Sample ID:			11:43 CCB4		12:33 CCB5		13:24 CCB6		14:07 CCB7	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	15	0.50	<200	-9.9	<200	0.70	<200	-7.5	<200
Antimony	6.0	1.3	0.20	<6.0	0.20	<6.0	-0.40	<6.0	-0.40	<6.0
Arsenic	10	1.6	0.50	<10	0.50	<10	0.60	<10	0.60	<10
Barium	200	1	anr							
Beryllium	4.0	.5	anr							
Cadmium	5.0	.5	0.10	<5.0	0.0	<5.0	0.10	<5.0	0.10	<5.0
Calcium	1000	50	4.8	<1000	1.5	<1000	1.7	<1000	4.5	<1000
Chromium	10	1.8	0.10	<10	-0.10	<10	0.10	<10	0.0	<10
Cobalt	50	.5	anr							
Copper	25	1	anr							
Iron	300	29	9.0	<300	7.0	<300	4.7	<300	7.7	<300
Lead	5.0	1.1	anr							
Magnesium	5000	74	8.4	<5000	-1.5	<5000	0.70	<5000	1.8	<5000
Manganese	15	.7	anr							
Molybdenum	50	.6								
Nickel	40	.5	anr							
Potassium	10000	200	-250	<10000	-300	<10000	-180	<10000	-270	<10000
Selenium	10	2	1.9	<10	0.80	<10	3.0	<10	0.90	<10
Silver	10	.5	anr							
Sodium	10000	500	-220	<10000	-290	<10000	-160	<10000	-240	<10000
Strontium	10	.5								
Thallium	10	1.3	anr							
Tin	50	.7								
Titanium	10	.9								
Vanadium	50	.5	anr							
Zinc	20	3	anr							

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: FA7521
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB082713M1.ICP Date Analyzed: 08/27/13 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA10993 Units: ug/l

Time:			14:49	
Sample ID:			CCB8	
Metal	RL	IDL	raw	final
Aluminum	200	15	5.0	<200
Antimony	6.0	1.3	1.4	<6.0
Arsenic	10	1.6	0.20	<10
Barium	200	1	anr	
Beryllium	4.0	.5	anr	
Cadmium	5.0	.5	0.0	<5.0
Calcium	1000	50	7.2	<1000
Chromium	10	1.8	0.10	<10
Cobalt	50	.5	anr	
Copper	25	1	anr	
Iron	300	29	7.9	<300
Lead	5.0	1.1	anr	
Magnesium	5000	74	-7.9	<5000
Manganese	15	.7	anr	
Molybdenum	50	.6		
Nickel	40	.5	anr	
Potassium	10000	200	-320	<10000
Selenium	10	2	0.80	<10
Silver	10	.5	anr	
Sodium	10000	500	-270	<10000
Strontium	10	.5		
Thallium	10	1.3	anr	
Tin	50	.7		
Titanium	10	.9		
Vanadium	50	.5	anr	
Zinc	20	3	anr	

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA7521
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB082713M1.ICP Date Analyzed: 08/27/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA10993 Units: ug/l

Time:		08:23			09:04			09:57	
Sample ID:	ICV	ICV1		CCV	CCV1		CCV	CCV2	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	39600	99.0	40000	39200	98.0	40000	40200	100.5
Antimony	2000	1980	99.0	2000	1880	94.0	2000	1920	96.0
Arsenic	2000	1970	98.5	2000	1910	95.5	2000	1940	97.0
Barium	anr								
Beryllium	anr								
Cadmium	2000	1990	99.5	2000	1980	99.0	2000	2000	100.0
Calcium	40000	41400	103.5	40000	40200	100.5	40000	40600	101.5
Chromium	2000	2020	101.0	2000	2000	100.0	2000	2040	102.0
Cobalt	anr								
Copper	anr								
Iron	40000	40500	101.3	40000	40700	101.8	40000	41700	104.3
Lead	anr								
Magnesium	40000	39500	98.8	40000	39600	99.0	40000	39800	99.5
Manganese	anr								
Molybdenum	anr								
Nickel	anr								
Potassium	40000	40400	101.0	40000	38800	97.0	40000	39500	98.8
Selenium	2000	1990	99.5	2000	1910	95.5	2000	1940	97.0
Silver	anr								
Sodium	40000	40900	102.3	40000	39900	99.8	40000	40800	102.0
Strontium									
Thallium	anr								
Tin	anr								
Titanium									
Vanadium	anr								
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA7521
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB082713M1.ICP Date Analyzed: 08/27/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA10993 Units: ug/l

Time:		10:48			11:39			12:29	
Sample ID:	CCV	CCV3		CCV	CCV4		CCV	CCV5	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	39600	99.0	40000	39400	98.5	40000	39300	98.3
Antimony	2000	1930	96.5	2000	1970	98.5	2000	1980	99.0
Arsenic	2000	1950	97.5	2000	1980	99.0	2000	1990	99.5
Barium	anr								
Beryllium	anr								
Cadmium	2000	2000	100.0	2000	2000	100.0	2000	2000	100.0
Calcium	40000	39900	99.8	40000	39600	99.0	40000	39800	99.5
Chromium	2000	2010	100.5	2000	2000	100.0	2000	2000	100.0
Cobalt	anr								
Copper	anr								
Iron	40000	40700	101.8	40000	40100	100.3	40000	39900	99.8
Lead	anr								
Magnesium	40000	39200	98.0	40000	39300	98.3	40000	39700	99.3
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium	40000	39100	97.8	40000	39400	98.5	40000	39700	99.3
Selenium	2000	1950	97.5	2000	1990	99.5	2000	1990	99.5
Silver	anr								
Sodium	40000	40100	100.3	40000	39700	99.3	40000	39800	99.5
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium	anr								
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA7521
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB082713M1.ICP Date Analyzed: 08/27/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA10993 Units: ug/l

Time:		13:20			14:03			14:45	
Sample ID:	CCV	CCV6		CCV	CCV7		CCV	CCV8	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	38700	96.8	40000	39400	98.5	40000	39700	99.3
Antimony	2000	1940	97.0	2000	1950	97.5	2000	1990	99.5
Arsenic	2000	1960	98.0	2000	1960	98.0	2000	1990	99.5
Barium	anr								
Beryllium	anr								
Cadmium	2000	1970	98.5	2000	1990	99.5	2000	2020	101.0
Calcium	40000	39000	97.5	40000	39500	98.8	40000	40400	101.0
Chromium	2000	1980	99.0	2000	2000	100.0	2000	2020	101.0
Cobalt	anr								
Copper	anr								
Iron	40000	39400	98.5	40000	40200	100.5	40000	40600	101.5
Lead	anr								
Magnesium	40000	38700	96.8	40000	39100	97.8	40000	40200	100.5
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium	40000	38900	97.3	40000	39200	98.0	40000	39900	99.8
Selenium	2000	1970	98.5	2000	1970	98.5	2000	2000	100.0
Silver	anr								
Sodium	40000	39000	97.5	40000	39500	98.8	40000	40300	100.8
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium	anr								
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

HIGH STANDARD CHECK SUMMARY

Login Number: FA7521
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB082713M1.ICP Date Analyzed: 08/27/13 Methods: SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA10993 Units: ug/l

Time:		08:16	
Sample ID:	HSTD	HSTD1	
Metal	True	Results	% Rec
Aluminum	80000	80200	100.3
Antimony	4000	4030	100.8
Arsenic	4000	4030	100.8
Barium	anr		
Beryllium	anr		
Cadmium	4000	4000	100.0
Calcium	80000	79400	99.3
Chromium	4000	3990	99.8
Cobalt	anr		
Copper	anr		
Iron	80000	79400	99.3
Lead	anr		
Magnesium	80000	79500	99.4
Manganese	anr		
Molybdenum	anr		
Nickel	anr		
Potassium	80000	80500	100.6
Selenium	4000	4020	100.5
Silver	anr		
Sodium	80000	80200	100.3
Strontium			
Thallium	anr		
Tin	anr		
Titanium			
Vanadium	anr		
Zinc	anr		

(*) Outside of QC limits
(anr) Analyte not requested

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: FA7521
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB082713M1.ICP Date Analyzed: 08/27/13 Methods: SW846 6010C
QC Limits: CRI 70-130% CRIA 70-130% Run ID: MA10993 Units: ug/l

Time:			08:34		14:32	
Sample ID:	CRI	CRIA	CRIA1		CRIA2	
Metal	True	True	Results	% Rec	Results	% Rec
Aluminum	400	200	193	96.5	194	97.0
Antimony	10	5.0	5.3	106.0	4.0	80.0
Arsenic	20	10	10.2	102.0	10.1	101.0
Barium	400	200	anr			
Beryllium	10	5.0	anr			
Cadmium	10	5.0	5.1	102.0	5.1	102.0
Calcium	2000	1000	1030	103.0	1030	103.0
Chromium	20	10	10.1	101.0	10.3	103.0
Cobalt	100	50	anr			
Copper	50	25	anr			
Iron	600	300	314	104.7	317	105.7
Lead	10	5.0	anr			
Magnesium	10000	5000	5020	100.4	5070	101.4
Manganese	30	15	anr			
Molybdenum	100	50	anr			
Nickel	80	40	anr			
Potassium	20000	10000	9440	94.4	9520	95.2
Selenium	20	10	9.8	98.0	10.5	105.0
Silver	20	10	anr			
Sodium	20000	10000	9570	95.7	9670	96.7
Strontium	20	10				
Thallium	20	10	anr			
Tin	100	50	anr			
Titanium	20	10				
Vanadium	100	50	anr			
Zinc	40	20	anr			

(*) Outside of QC limits
(anr) Analyte not requested

INTERFERING ELEMENT CHECK STANDARDS SUMMARY
Part 1 - ICSA and ICSAB Standards

Login Number: FA7521
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB082713M1.ICP Date Analyzed: 08/27/13 Methods: SW846 6010C
QC Limits: 80 to 120 % Recovery Run ID: MA10993 Units: ug/l

Time:			08:41		08:53		14:36		14:41	
Sample ID:	ICSA	ICSAB	ICSA1		ICSAB1		ICSA2		ICSAB2	
Metal	True	True	Results	% Rec	Results	% Rec	Results	% Rec	Results	% Rec
Aluminum	500000	500000	496000	99.2	503000	100.6	501000	100.2	501000	100.2
Antimony		1000	-0.20		989	98.9	1.0		1020	102.0
Arsenic		1000	0.10		1000	100.0	0.0		1020	102.0
Barium		500	-0.20		515	103.0	-0.20		519	103.8
Beryllium		500	-0.10		500	100.0	-0.10		487	97.4
Cadmium		1000	-0.70		932	93.2	-0.60		934	93.4
Calcium	500000	500000	470000	94.0	480000	96.0	471000	94.2	470000	94.0
Chromium		500	-0.70		489	97.8	-0.40		484	96.8
Cobalt		500	2.0		464	92.8	2.1		465	93.0
Copper		500	-1.8		540	108.0	-2.4		530	106.0
Iron	200000	200000	184000	92.0	185000	92.5	183000	91.5	179000	89.5
Lead		1000	0.0		925	92.5	-0.90		913	91.3
Magnesium	500000	500000	483000	96.6	489000	97.8	486000	97.2	487000	97.4
Manganese		500	-0.40		494	98.8	-0.30		498	99.6
Molybdenum		1000	0.0		943	94.3	0.20		940	94.0
Nickel		1000	-0.80		902	90.2	-0.90		921	92.1
Potassium			-160		-130		-250		-230	
Selenium		1000	0.0		955	95.5	-5.3		985	98.5
Silver		1000	0.60		979	97.9	0.50		988	98.8
Sodium			-98		-110		-150		-130	
Strontium		1000	12.1		1030	103.0	12.3		1020	102.0
Thallium		1000	0.0		925	92.5	-0.80		909	90.9
Tin		1000	0.0		930	93.0	0.10		942	94.2
Titanium		1000	-5.0		1010	101.0	-5.1		993	99.3
Vanadium		500	-0.50		489	97.8	-0.50		490	98.0
Zinc		1000	-1.4		934	93.4	-0.90		936	93.6

(*) Outside of QC limits
(anr) Analyte not requested

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA7521
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB082813M1.ICP Date Analyzed: 08/28/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10999
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
08:00	MA10999-STD1	1		STDA
08:04	MA10999-STD2	1		STDB
08:09	MA10999-STD3	1		STDC
08:13	MA10999-STD4	1		STDD
08:17	MA10999-HSTD1	1		
08:26	MA10999-ICV1	1		
08:33	MA10999-ICB1	1		
08:37	MA10999-CRIA1	1		
08:44	MA10999-ICSA1	1		
08:50	MA10999-ICSAB1	1		
09:03	MA10999-CCV1	1		
09:10	MA10999-CCB1	1		
09:34	MA10999-CCV2	1		
09:41	MA10999-CCB2	1		
09:45	MP25732-MB1	1		
09:49	MP25732-B1	1		
09:53	FA7575-1	1		(sample used for QC only; not part of login FA7521)
09:58	MP25732-D1	1		
10:02	MP25732-SD1	5		
10:06	MP25732-PS1	1		
10:11	MP25732-S1	1		
10:15	MP25732-S2	1		
10:19	ZZZZZZ	1		
10:24	ZZZZZZ	1		
10:28	MA10999-CCV3	1		
10:32	MA10999-CCB3	1		
10:36	ZZZZZZ	1		
10:40	ZZZZZZ	1		
10:44	ZZZZZZ	1		
10:48	ZZZZZZ	1		
10:53	ZZZZZZ	1		
10:57	ZZZZZZ	1		
11:01	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA7521
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB082813M1.ICP Date Analyzed: 08/28/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10999
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
11:05	ZZZZZZ	1		
11:10	ZZZZZZ	1		
11:14	ZZZZZZ	1		
11:18	MA10999-CCV4	1		
11:22	MA10999-CCB4	1		
11:26	ZZZZZZ	1		
11:30	ZZZZZZ	1		
11:34	ZZZZZZ	1		
11:38	FA7533-1	5		(sample used for QC only; not part of login FA7521)
11:42	MP25726-D1	5		
11:46	MP25726-S1	5		
11:50	MP25726-S2	5		
11:54	MP25726-PS1	5		
11:58	MP25726-SD1	25		
12:03	ZZZZZZ	4		
12:07	MA10999-CCV5	1		
12:11	MA10999-CCB5	1		
12:15	ZZZZZZ	5		
12:19	FA7521-1	10		
---------->	Last reportable sample/prep for job FA7521			
12:23	ZZZZZZ	5		
12:27	ZZZZZZ	10		
12:31	MP25739-MB1	1		
12:35	MP25739-B1	1		
12:39	FA7577-2L	1		(sample used for QC only; not part of login FA7521)
12:43	MP25739-D1	1		
12:48	MP25739-SD1	5		
12:52	MP25739-S1	1		
12:56	MA10999-CCV6	1		
12:59	MA10999-CCB6	1		
13:04	MP25739-S2	1		
13:08	MP25739-MB2	1		
13:12	MP25739-B2	1		
13:16	ZZZZZZ	10		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA7521
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB082813M1.ICP Date Analyzed: 08/28/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10999
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
13:20	ZZZZZZ	5		
13:24	MA10999-CCV7	1		
13:28	MA10999-CCB7	1		
13:37	MA10999-CRIA2	1		
13:41	MA10999-ICSA2	1		
13:45	MA10999-ICSAB2	1		
13:49	MA10999-CCV8	1		
13:53	MA10999-CCB8	1		

----------> Last reportable CCB for job FA7521
Refer to raw data for calibration curve and standards.

INTERNAL STANDARD SUMMARY

Login Number: FA7521
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB082813M1.ICP Date Analyzed: 08/28/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10999
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
08:00	MA10999-STD1	7725	46690	2586	2896
08:04	MA10999-STD2	7638	45313	2569	2714
08:09	MA10999-STD3	7370	43922	2572	2470
08:13	MA10999-STD4	7067	42469	2530	2242
08:17	MA10999-HSTD1	7076	42150	2522	2238
08:26	MA10999-ICV1	7339	43466	2523	2450
08:33	MA10999-ICB1	7793 R	46185 R	2550 R	2888 R
08:37	MA10999-CRIA1	7719	45549	2542	2793
08:44	MA10999-ICSA1	6694	38388	2407	2255
08:50	MA10999-ICSAB1	6736	38539	2410	2211
09:03	MA10999-CCV1	7410	42749	2465	2425
09:10	MA10999-CCB1	7766	45260	2430	2845
09:34	MA10999-CCV2	7383	42750	2464	2421
09:41	MA10999-CCB2	7736	45191	2485	2849
09:45	MP25732-MB1	7674	45190	2515	2786
09:49	MP25732-B1	7383	43240	2465	2542
09:53	FA7575-1	14383	83206	5159	2468
09:58	MP25732-D1	14380	82858	5094	2462
10:02	MP25732-SD1	9185	52619	3032	2639
10:06	MP25732-PS1	14283 !	81742 !	4969 !	2462
10:11	MP25732-S1	12642	72346	4341	2434
10:15	MP25732-S2	13128	74868	4506	2437
10:19	ZZZZZZ	7460	43046	2674	1994
10:24	ZZZZZZ	7559	43769	2673	2109
10:28	MA10999-CCV3	7356	43021	2391	2425
10:32	MA10999-CCB3	7802	46011	2415	2877
10:36	ZZZZZZ	7756	44642	2559	2567
10:40	ZZZZZZ	7680	44467	2554	2559
10:44	ZZZZZZ	10057 !	56747	3438 !	2538
10:48	ZZZZZZ	11422 !	64709 !	3860 !	2418
10:53	ZZZZZZ	10934 !	62895 !	3741 !	2444
10:57	ZZZZZZ	8403	48354	2764	2536
11:01	ZZZZZZ	8623	49595	2928	2421

INTERNAL STANDARD SUMMARY

Login Number: FA7521
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB082813M1.ICP Date Analyzed: 08/28/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10999
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
11:05	ZZZZZZ	7961	46349	2608	2745
11:10	ZZZZZZ	15851 !	93025 !	5457 !	2467
11:14	ZZZZZZ	7943	46203	2569	2672
11:18	MA10999-CCV4	7464	43459	2415	2468
11:22	MA10999-CCB4	7755	45477	2406	2871
11:26	ZZZZZZ	9100	52935	3005	2549
11:30	ZZZZZZ	8918	51539	3005	2431
11:34	ZZZZZZ	8515	49164	2827	2502
11:38	FA7533-1	7575	44226	2424	2682
11:42	MP25726-D1	7498	43868	2424	2668
11:46	MP25726-S1	7495	44048	2442	2636
11:50	MP25726-S2	7533	43980	2448	2639
11:54	MP25726-PS1	7612	44372	2491	2691
11:58	MP25726-SD1	7747	45616	2456	2834
12:03	ZZZZZZ	7507	43602	2423	2629
12:07	MA10999-CCV5	7450	43435	2420	2455
12:11	MA10999-CCB5	7834	45703	2454	2892
12:15	ZZZZZZ	10038	55553	3401	2224
12:19	FA7521-1	7661	43934	2555	2586
12:23	ZZZZZZ	7682	44578	2474	2729
12:27	ZZZZZZ	7886	45865	2492	2830
12:31	MP25739-MB1	7932	46668	2529	2891
12:35	MP25739-B1	7581	44328	2451	2614
12:39	FA7577-2L	7797	45865	2456	2831
12:43	MP25739-D1	7777	45573	2463	2823
12:48	MP25739-SD1	7827	45903	2442	2875
12:52	MP25739-S1	7508	43481	2427	2578
12:56	MA10999-CCV6	7457	43540	2414	2461
12:59	MA10999-CCB6	7762	45758	2410	2865
13:04	MP25739-S2	7460	43539	2407	2573
13:08	MP25739-MB2	7780	45847	2456	2856
13:12	MP25739-B2	7459	43354	2434	2578
13:16	ZZZZZZ	7364	42842	2422	2517

INTERNAL STANDARD SUMMARY

Login Number: FA7521
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB082813M1.ICP Date Analyzed: 08/28/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10999
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
13:20	ZZZZZZ	7371	42838	2455	2449
13:24	MA10999-CCV7	7348	42899	2395	2434
13:28	MA10999-CCB7	7717	45700	2403	2869
13:37	MA10999-CRIA2	7735	44891	2424	2789
13:41	MA10999-ICSA2	6749	38345	2321	2272
13:45	MA10999-ICSAB2	6671	38204	2287	2200
13:49	MA10999-CCV8	7364	42779	2348	2430
13:53	MA10999-CCB8	7753	45649	2371	2869

R = Reference for ISTD limits. ! = Outside limits.

LEGEND:

Istd#	Parameter	Limits
Istd#1	Yttrium (2243)	60-125 %
Istd#2	Yttrium (3600)	60-125 %
Istd#3	Yttrium (3710)	60-125 %
Istd#4	Indium	60-125 %

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: FA7521
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB082813M1.ICP Date Analyzed: 08/28/13 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA10999 Units: ug/l

Time:			08:33		09:10		09:41		10:32	
Sample ID:			ICB1		CCB1		CCB2		CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	15	0.30	<200	8.5	<200	0.0	<200	8.9	<200
Antimony	6.0	1.3	-0.70	<6.0	0.40	<6.0	0.90	<6.0	-0.30	<6.0
Arsenic	10	1.6	0.30	<10	0.30	<10	0.70	<10	0.10	<10
Barium	200	1	anr							
Beryllium	4.0	.5	anr							
Cadmium	5.0	.5	0.10	<5.0	0.10	<5.0	0.10	<5.0	0.10	<5.0
Calcium	1000	50	1.9	<1000	3.9	<1000	4.6	<1000	33.5	<1000
Chromium	10	1.8	-0.20	<10	0.0	<10	0.20	<10	0.10	<10
Cobalt	50	.5	anr							
Copper	25	1	anr							
Iron	300	29	5.5	<300	3.7	<300	9.0	<300	14.2	<300
Lead	5.0	1.1	anr							
Magnesium	5000	74	-4.9	<5000	-6.5	<5000	-19	<5000	9.6	<5000
Manganese	15	.7	anr							
Molybdenum	50	.6								
Nickel	40	.5	anr							
Potassium	10000	200	113	<10000	114	<10000	146	<10000	138	<10000
Selenium	10	2	2.8	<10	1.0	<10	0.40	<10	-1.0	<10
Silver	10	.5	anr							
Sodium	10000	500	52.4	<10000	60.8	<10000	67.4	<10000	25.9	<10000
Strontium	10	.5	anr							
Thallium	10	1.3	anr							
Tin	50	.7								
Titanium	10	.9								
Vanadium	50	.5	anr							
Zinc	20	3	anr							

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: FA7521
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB082813M1.ICP Date Analyzed: 08/28/13 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA10999 Units: ug/l

Time: / Sample ID:			11:22 CCB4		12:11 CCB5		12:59 CCB6		13:28 CCB7	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	15	5.0	<200	12.2	<200	14.5	<200	12.0	<200
Antimony	6.0	1.3	0.70	<6.0	-0.20	<6.0	-0.10	<6.0	0.40	<6.0
Arsenic	10	1.6	-0.30	<10	0.40	<10	0.20	<10	0.70	<10
Barium	200	1	anr							
Beryllium	4.0	.5	anr							
Cadmium	5.0	.5	0.10	<5.0	0.20	<5.0	0.10	<5.0	0.10	<5.0
Calcium	1000	50	4.7	<1000	3.7	<1000	1.5	<1000	8.5	<1000
Chromium	10	1.8	0.40	<10	0.30	<10	0.20	<10	0.20	<10
Cobalt	50	.5	anr							
Copper	25	1	anr							
Iron	300	29	13.5	<300	13.8	<300	8.6	<300	6.0	<300
Lead	5.0	1.1	anr							
Magnesium	5000	74	-19	<5000	-8.1	<5000	-9.5	<5000	-16	<5000
Manganese	15	.7	anr							
Molybdenum	50	.6								
Nickel	40	.5	anr							
Potassium	10000	200	220	<10000	187	<10000	114	<10000	112	<10000
Selenium	10	2	0.0	<10	-0.60	<10	0.20	<10	-0.60	<10
Silver	10	.5	anr							
Sodium	10000	500	-3.9	<10000	26.0	<10000	60.8	<10000	22.4	<10000
Strontium	10	.5	anr							
Thallium	10	1.3	anr							
Tin	50	.7								
Titanium	10	.9								
Vanadium	50	.5	anr							
Zinc	20	3	anr							

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: FA7521
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB082813M1.ICP Date Analyzed: 08/28/13 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA10999 Units: ug/l

Time:			13:53	
Sample ID:			CCB8	
Metal	RL	IDL	raw	final
Aluminum	200	15	11.1	<200
Antimony	6.0	1.3	-0.70	<6.0
Arsenic	10	1.6	0.30	<10
Barium	200	1	anr	
Beryllium	4.0	.5	anr	
Cadmium	5.0	.5	0.10	<5.0
Calcium	1000	50	8.6	<1000
Chromium	10	1.8	-0.20	<10
Cobalt	50	.5	anr	
Copper	25	1	anr	
Iron	300	29	12.4	<300
Lead	5.0	1.1	anr	
Magnesium	5000	74	-7.3	<5000
Manganese	15	.7	anr	
Molybdenum	50	.6		
Nickel	40	.5	anr	
Potassium	10000	200	91.0	<10000
Selenium	10	2	0.50	<10
Silver	10	.5	anr	
Sodium	10000	500	24.2	<10000
Strontium	10	.5	anr	
Thallium	10	1.3	anr	
Tin	50	.7		
Titanium	10	.9		
Vanadium	50	.5	anr	
Zinc	20	3	anr	

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA7521
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB082813M1.ICP Date Analyzed: 08/28/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA10999 Units: ug/l

Time:		08:26			09:03			09:34	
Sample ID:	ICV	ICV1		CCV	CCV1		CCV	CCV2	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	39800	99.5	40000	40300	100.8	40000	39500	98.8
Antimony	2000	1950	97.5	2000	1880	94.0	2000	1970	98.5
Arsenic	2000	1960	98.0	2000	1890	94.5	2000	1970	98.5
Barium	anr								
Beryllium	anr								
Cadmium	2000	1990	99.5	2000	1990	99.5	2000	1990	99.5
Calcium	40000	41200	103.0	40000	40500	101.3	40000	39600	99.0
Chromium	2000	2010	100.5	2000	2030	101.5	2000	1980	99.0
Cobalt	anr								
Copper	anr								
Iron	40000	40700	101.8	40000	42300	105.8	40000	40200	100.5
Lead	anr								
Magnesium	40000	39900	99.8	40000	42900	107.3	40000	39700	99.3
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium	40000	41100	102.8	40000	42500	106.3	40000	39500	98.8
Selenium	2000	1970	98.5	2000	1890	94.5	2000	1980	99.0
Silver	anr								
Sodium	40000	40900	102.3	40000	40900	102.3	40000	39600	99.0
Strontium	anr								
Thallium	anr								
Tin									
Titanium									
Vanadium	anr								
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA7521
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB082813M1.ICP Date Analyzed: 08/28/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA10999 Units: ug/l

Time:		10:28			11:18			12:07	
Sample ID:	CCV	CCV3		CCV	CCV4		CCV	CCV5	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	39300	98.3	40000	39200	98.0	40000	38900	97.3
Antimony	2000	1990	99.5	2000	2000	100.0	2000	2000	100.0
Arsenic	2000	1980	99.0	2000	1990	99.5	2000	1990	99.5
Barium	anr								
Beryllium	anr								
Cadmium	2000	2000	100.0	2000	1990	99.5	2000	1980	99.0
Calcium	40000	40000	100.0	40000	39600	99.0	40000	39400	98.5
Chromium	2000	1990	99.5	2000	1980	99.0	2000	1970	98.5
Cobalt	anr								
Copper	anr								
Iron	40000	40100	100.3	40000	39800	99.5	40000	39600	99.0
Lead	anr								
Magnesium	40000	39900	99.8	40000	39200	98.0	40000	38800	97.0
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium	40000	39400	98.5	40000	38400	96.0	40000	37800	94.5
Selenium	2000	1990	99.5	2000	1990	99.5	2000	2000	100.0
Silver	anr								
Sodium	40000	39200	98.0	40000	38100	95.3	40000	37400	93.5
Strontium	anr								
Thallium	anr								
Tin									
Titanium									
Vanadium	anr								
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA7521
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB082813M1.ICP Date Analyzed: 08/28/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA10999 Units: ug/l

Time:		12:56			13:24			13:49	
Sample ID:	CCV	CCV6		CCV	CCV7		CCV	CCV8	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	38800	97.0	40000	39400	98.5	40000	39500	98.8
Antimony	2000	2000	100.0	2000	2020	101.0	2000	2010	100.5
Arsenic	2000	1980	99.0	2000	2010	100.5	2000	2000	100.0
Barium	anr								
Beryllium	anr								
Cadmium	2000	1980	99.0	2000	2010	100.5	2000	2010	100.5
Calcium	40000	39500	98.8	40000	40000	100.0	40000	40600	101.5
Chromium	2000	1970	98.5	2000	1990	99.5	2000	2000	100.0
Cobalt	anr								
Copper	anr								
Iron	40000	39600	99.0	40000	40100	100.3	40000	40800	102.0
Lead	anr								
Magnesium	40000	38900	97.3	40000	39200	98.0	40000	40300	100.8
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium	40000	38000	95.0	40000	38200	95.5	40000	38700	96.8
Selenium	2000	1990	99.5	2000	2020	101.0	2000	2010	100.5
Silver	anr								
Sodium	40000	37400	93.5	40000	37900	94.8	40000	38000	95.0
Strontium	anr								
Thallium	anr								
Tin									
Titanium									
Vanadium	anr								
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

HIGH STANDARD CHECK SUMMARY

Login Number: FA7521
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB082813M1.ICP Date Analyzed: 08/28/13 Methods: SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA10999 Units: ug/l

Time:		08:17	
Sample ID:	HSTD	HSTD1	
Metal	True	Results	% Rec
Aluminum	80000	80200	100.3
Antimony	4000	4010	100.3
Arsenic	4000	4010	100.3
Barium	anr		
Beryllium	anr		
Cadmium	4000	3990	99.8
Calcium	80000	79800	99.8
Chromium	4000	4030	100.8
Cobalt	anr		
Copper	anr		
Iron	80000	79700	99.6
Lead	anr		
Magnesium	80000	80200	100.3
Manganese	anr		
Molybdenum			
Nickel	anr		
Potassium	80000	81000	101.3
Selenium	4000	3990	99.8
Silver	anr		
Sodium	80000	79500	99.4
Strontium	anr		
Thallium	anr		
Tin			
Titanium			
Vanadium	anr		
Zinc	anr		

(*) Outside of QC limits
(anr) Analyte not requested

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: FA7521
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB082813M1.ICP Date Analyzed: 08/28/13 Methods: SW846 6010C
QC Limits: CRI 70-130% CRIA 70-130% Run ID: MA10999 Units: ug/l

Time:			08:37		13:37	
Sample ID:	CRI	CRIA	CRIA1		CRIA2	
Metal	True	True	Results	% Rec	Results	% Rec
Aluminum	400	200	214	107.0	199	99.5
Antimony	10	5.0	4.9	98.0	5.5	110.0
Arsenic	20	10	9.9	99.0	10.4	104.0
Barium	400	200	anr			
Beryllium	10	5.0	anr			
Cadmium	10	5.0	5.1	102.0	5.1	102.0
Calcium	2000	1000	1040	104.0	1040	104.0
Chromium	20	10	10.2	102.0	10.3	103.0
Cobalt	100	50	anr			
Copper	50	25	anr			
Iron	600	300	320	106.7	319	106.3
Lead	10	5.0	anr			
Magnesium	10000	5000	5190	103.8	5020	100.4
Manganese	30	15	anr			
Molybdenum	100	50				
Nickel	80	40	anr			
Potassium	20000	10000	10000	100.0	9570	95.7
Selenium	20	10	10.9	109.0	9.3	93.0
Silver	20	10	anr			
Sodium	20000	10000	9950	99.5	9490	94.9
Strontium	20	10	anr			
Thallium	20	10	anr			
Tin	100	50				
Titanium	20	10				
Vanadium	100	50	anr			
Zinc	40	20	anr			

(*) Outside of QC limits
(anr) Analyte not requested

INTERFERING ELEMENT CHECK STANDARDS SUMMARY
Part 1 - ICSA and ICSAB Standards

Login Number: FA7521
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB082813M1.ICP Date Analyzed: 08/28/13 Methods: SW846 6010C
QC Limits: 80 to 120 % Recovery Run ID: MA10999 Units: ug/l

Time:			08:44		08:50		13:41		13:45	
Sample ID:	ICSA	ICSAB	ICSA1		ICSAB1		ICSA2		ICSAB2	
Metal	True	True	Results	% Rec	Results	% Rec	Results	% Rec	Results	% Rec
Aluminum	500000	500000	511000	102.2	519000	103.8	499000	99.8	505000	101.0
Antimony		1000	1.4		974	97.4	0.40		1040	104.0
Arsenic		1000	-0.10		994	99.4	0.60		1040	104.0
Barium		500	0.30		520	104.0	0.10		521	104.2
Beryllium		500	0.10		516	103.2	0.20		488	97.6
Cadmium		1000	0.0		944	94.4	0.40		955	95.5
Calcium	500000	500000	482000	96.4	475000	95.0	478000	95.6	479000	95.8
Chromium		500	-0.90		488	97.6	-0.80		483	96.6
Cobalt		500	2.1		468	93.6	1.9		473	94.6
Copper		500	0.0		545	109.0	0.30		515	103.0
Iron	200000	200000	193000	96.5	195000	97.5	187000	93.5	188000	94.0
Lead		1000	0.50		927	92.7	-0.20		906	90.6
Magnesium	500000	500000	491000	98.2	499000	99.8	464000	92.8	472000	94.4
Manganese		500	-0.90		489	97.8	-0.80		503	100.6
Molybdenum		1000	0.60		953	95.3	0.40		949	94.9
Nickel		1000	-0.50		899	89.9	-1.3		953	95.3
Potassium			270		288		354		358	
Selenium		1000	0.0		950	95.0	-2.4		1010	101.0
Silver		1000	0.80		972	97.2	0.70		1000	100.0
Sodium			225		220		232		252	
Strontium		1000	12.0 (a)		1060	106.0	11.4		1010	101.0
Thallium		1000	-0.50		931	93.1	-1.1		904	90.4
Tin		1000	-0.30		929	92.9	0.10		966	96.6
Titanium		1000	-5.3		1030	103.0	-5.5		994	99.4
Vanadium		500	-0.70		485	97.0	-0.70		489	97.8
Zinc		1000	-1.7		951	95.1	-1.3		955	95.5

(*) Outside of QC limits
(anr) Analyte not requested
(a) Verified trace level impurity.

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: FA7521
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

QC Batch ID: MP25726
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 08/26/13

Metal	RL	IDL	MDL	MB raw	final
Aluminum	200	15	15	-6.2	<200
Antimony	6.0	1.3	1.3	1.8	<6.0
Arsenic	10	1.6	2.5	-1.0	<10
Barium	200	1	1		
Beryllium	4.0	.5	.5		
Cadmium	5.0	.5	.5	-0.10	<5.0
Calcium	1000	50	50	5.9	<1000
Chromium	10	1.8	2	0.0	<10
Cobalt	50	.5	.5		
Copper	25	1	1		
Iron	300	29	29	-1.4	<300
Lead	5.0	1.1	1.1		
Magnesium	5000	74	74	-26	<5000
Manganese	15	.7	.7		
Molybdenum	50	.6	1		
Nickel	40	.5	.5		
Potassium	10000	200	200	-280	<10000
Selenium	10	2	2	0.80	<10
Silver	10	.5	.5		
Sodium	10000	500	500	-280	<10000
Strontium	10	.5	.5		
Thallium	10	1.3	1.3		
Tin	50	.7	1.8		
Titanium	10	.9	1		
Vanadium	50	.5	1		
Zinc	20	3	5		

Associated samples MP25726: FA7521-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FA7521
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

QC Batch ID: MP25726
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date:			08/26/13					08/26/13	
Metal	FA7533-1 Original	DUP	RPD	QC Limits	FA7533-1 Original	MS	Spikelot MPFLICP2	% Rec	QC Limits
Aluminum	104	112	7.4	0-20	104	27900	27000	102.9	80-120
Antimony	0.0	0.0	NC	0-20	0.0	508	500	101.6	80-120
Arsenic	2.3	1.7	30.0 (a)	0-20	2.3	2070	2000	103.4	80-120
Barium	anr								
Beryllium	anr								
Cadmium	0.0	0.0	NC	0-20	0.0	48.7	50	97.4	80-120
Calcium	333000	311000	1.0	0-20	333000	326000	25000	48.0 (b)	80-120
Chromium	6.1	5.8	5.0	0-20	6.1	212	200	103.0	80-120
Cobalt	anr								
Copper	anr								
Iron	8600	8550	0.6	0-20	8600	35300	26000	102.7	80-120
Lead	anr								
Magnesium	39000	38900	0.3	0-20	39000	62100	25000	92.4	80-120
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium	4600	4680	1.7	0-20	4600	31600	25000	108.0	80-120
Selenium	0.0	0.0	NC (a)	0-20	0.0	2070	2000	103.4	80-120
Silver	anr								
Sodium	156000	147000	5.9	0-20	156000	172000	25000	64.0 (b)	80-120
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium	anr								
Zinc	anr								

Associated samples MP25726: FA7521-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) RPD acceptable due to low duplicate and sample concentrations.
(b) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FA7521
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

QC Batch ID: MP25726
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 08/26/13

Metal	FA7533-1 Original	MSD	Spikelot MPFLICP2	% Rec	MSD RPD	QC Limit
Aluminum	104	28500	27000	105.2	2.1	20
Antimony	0.0	521	500	104.2	2.5	20
Arsenic	2.3	2110	2000	105.4	1.9	20
Barium	anr					
Beryllium	anr					
Cadmium	0.0	49.8	50	99.6	2.2	20
Calcium	333000	333000	25000	76.0 (a)	2.1	20
Chromium	6.1	217	200	105.5	2.3	20
Cobalt	anr					
Copper	anr					
Iron	8600	36100	26000	105.8	2.2	20
Lead	anr					
Magnesium	39000	63300	25000	97.2	1.9	20
Manganese	anr					
Molybdenum						
Nickel	anr					
Potassium	4600	32200	25000	110.4	1.9	20
Selenium	0.0	2110	2000	105.4	1.9	20
Silver	anr					
Sodium	156000	169000	25000	52.0 (a)	1.8	20
Strontium						
Thallium	anr					
Tin						
Titanium						
Vanadium	anr					
Zinc	anr					

Associated samples MP25726: FA7521-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: FA7521
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

QC Batch ID: MP25726
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 08/26/13

Metal	BSP Result	Spikelot MPFLICP2	% Rec	QC Limits
Aluminum	27800	27000	103.0	80-120
Antimony	499	500	99.8	80-120
Arsenic	1990	2000	99.5	80-120
Barium	anr			
Beryllium	anr			
Cadmium	51.0	50	102.0	80-120
Calcium	26700	25000	106.8	80-120
Chromium	214	200	107.0	80-120
Cobalt	anr			
Copper	anr			
Iron	27900	26000	107.3	80-120
Lead	anr			
Magnesium	25500	25000	102.0	80-120
Manganese	anr			
Molybdenum				
Nickel	anr			
Potassium	25200	25000	100.8	80-120
Selenium	1970	2000	98.5	80-120
Silver	anr			
Sodium	26000	25000	104.0	80-120
Strontium				
Thallium	anr			
Tin				
Titanium				
Vanadium	anr			
Zinc	anr			

Associated samples MP25726: FA7521-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: FA7521
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

QC Batch ID: MP25726
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 08/26/13

Metal	FA7533-1 Original	SDL 1:5	%DIF	QC Limits
Aluminum	104	104	0.0	0-10
Antimony	0.00	0.00	NC	0-10
Arsenic	2.30	0.00	100.0(a)	0-10
Barium	anr			
Beryllium	anr			
Cadmium	0.00	0.00	NC	0-10
Calcium	333000	326000	3.7	0-10
Chromium	6.10	0.00	100.0(a)	0-10
Cobalt	anr			
Copper	anr			
Iron	8600	8750	1.8	0-10
Lead	anr			
Magnesium	39000	39800	2.2	0-10
Manganese	anr			
Molybdenum				
Nickel	anr			
Potassium	4600	3470	24.5 (a)	0-10
Selenium	0.00	0.00	NC (a)	0-10
Silver	anr			
Sodium	156000	151000	2.9	0-10
Strontium				
Thallium	anr			
Tin				
Titanium				
Vanadium	anr			
Zinc	anr			

Associated samples MP25726: FA7521-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

POST DIGESTATE SPIKE SUMMARY

Login Number: FA7521
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

QC Batch ID: MP25726
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 08/26/13

Metal	Sample ml	Final ml	FA7533-1 Raw	Corr.**	PS ug/l	Spike ml	Spike ug/ml	Spike ug/l	% Rec	QC Limits
Aluminum	9.8	10	104	101.92	2640	0.2	125	2500	101.5	80-120
Antimony	9.8	10			100.6	0.2	5	100	100.6	80-120
Arsenic	9.8	10	2.3	2.254	106.8	0.2	5	100	104.5	80-120
Barium										
Beryllium										
Cadmium	9.8	10			49.7	0.2	2.5	50	99.4	80-120
Calcium	9.8	10	332700	308014	315600	0.2	250	5000	151.7*(a	80-120
Chromium	9.8	10	6.1	5.978	57.2	0.2	2.5	50	102.4	80-120
Cobalt										
Copper										
Iron	9.8	10	8597	8425.06	11530	0.2	150	3000	103.5	80-120
Lead										
Magnesium	9.8	10	38960	38180.8	43120	0.2	250	5000	98.8	80-120
Manganese										
Molybdenum										
Nickel										
Potassium	9.8	10	4595	4503.1	14980	0.2	500	10000	104.8	80-120
Selenium	9.8	10		2.058	101.4	0.2	5	100	99.3	80-120
Silver										
Sodium	9.8	10	155500	152390	153800	0.2	500	10000	14.1*(a)	80-120
Strontium										
Thallium										
Tin										
Titanium										
Vanadium										
Zinc										

Associated samples MP25726: FA7521-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(**) Corr. sample result = Raw * (sample volume / final volume)
(anr) Analyte not requested
(a) Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

Southeast ACCUTEST LABORATORIES

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries
- Instrument Runlogs/QC

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: FA7521
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Alkalinity, Total as CaCO3	GN57539	5.0	0.90	mg/l	250	257	103.0	90-113%
Chloride	GP22355/GN57402	2.0	0.0	mg/l	50	49.5	99.0	90-110%
Fluoride	GP22376/GN57467	0.20	0.0	mg/l	2.5	2.47	98.8	90-110%
Nitrogen, Nitrate	GP22355/GN57402	0.10	0.0	mg/l	2.5	2.54	101.6	90-110%
Phosphate, Ortho	GP22350/GN57399	0.10	0.0	mg/l	.300	0.29	96.8	83-116%
Phosphorus, Total	GP22398/GN57518	0.10	0.0	mg/l	.300mg/l	0.30	100.2	81-118%
Solids, Total Dissolved	GN57457	100	0.0	mg/l				
Specific Conductivity	GN57397	1.0	0.0	umhos/cm				
Sulfate	GP22355/GN57402	2.0	0.0	mg/l	50	49.4	98.8	90-110%

Associated Samples:
Batch GN57397: FA7521-1
Batch GN57457: FA7521-1
Batch GN57539: FA7521-1
Batch GP22350: FA7521-1F
Batch GP22355: FA7521-1
Batch GP22376: FA7521-1
Batch GP22398: FA7521-1
(*) Outside of QC limits

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: FA7521
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Alkalinity, Total as CaCO3	GN57539	FA7501-18	mg/l	20.8	20.9	0.5	0-20%
Solids, Total Dissolved	GN57457	FA7501-21	mg/l	70.0	69.0	1.4	0-5%
Specific Conductivity	GN57397	FA7521-1	umhos/cm	12400	12400	0.2	0-10%
pH	GN57398	FA7497-2	su	7.54	7.58	0.5	0-10%

Associated Samples:
Batch GN57397: FA7521-1
Batch GN57398: FA7521-1
Batch GN57457: FA7521-1
Batch GN57539: FA7521-1
(*) Outside of QC limits

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: FA7521
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Chloride	GP22355/GN57402	FA7494-1	mg/l	9.1	50	57.7	97.2	90-110%
Fluoride	GP22376/GN57467	FA7464-6	mg/l	0.36	2.5	3.3	117.6N(a)	90-110%
Nitrogen, Nitrate	GP22355/GN57402	FA7494-1	mg/l	1.9	2.5	4.4	100.0	90-110%
Phosphate, Ortho	GP22350/GN57399	FA7521-1F	mg/l	1240	.300	4070	94.4	83-116%
Phosphorus, Total	GP22398/GN57518	FA7668-5	mg/l	0.30	.300	0.56	88.6	81-118%
Sulfate	GP22355/GN57402	FA7494-1	mg/l	4.5	50	53.7	98.4	90-110%

Associated Samples:
Batch GP22350: FA7521-1F
Batch GP22355: FA7521-1
Batch GP22376: FA7521-1
Batch GP22398: FA7521-1
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(a) Spike recovery indicates possible matrix interference.

MATRIX SPIKE DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: FA7521
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MSD Result	RPD	QC Limit
Chloride	GP22355/GN57402	FA7494-1	mg/l	9.1	50	57.7	0.0	20%
Fluoride	GP22376/GN57467	FA7464-6	mg/l	0.36	2.5	3.3	0.0	20%
Nitrogen, Nitrate	GP22355/GN57402	FA7494-1	mg/l	1.9	2.5	4.4	0.0	20%
Phosphate, Ortho	GP22350/GN57399	FA7521-1F	mg/l	1240	.300	4130	1.4	26%
Phosphorus, Total	GP22398/GN57518	FA7668-5	mg/l	0.30	.300	0.588	4.5	22%
Sulfate	GP22355/GN57402	FA7494-1	mg/l	4.5	50	53.8	0.2	20%

Associated Samples:
Batch GP22350: FA7521-1F
Batch GP22355: FA7521-1
Batch GP22376: FA7521-1
Batch GP22398: FA7521-1
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA7521
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: 313230801.TXT Date Analyzed: 08/23/13 Methods: EPA 300/SW846 9056A
Analyst: AA Run ID: GN57402
Parameters: Chloride,Nitrogen, Nitrate,Sulfate

Time	Sample Description	Dilution Factor	PS Recov	Comments
09:03	GN57402-CCV1	1		
09:19	GP22355-MB1	1		
09:35	GP22355-B1	1		
10:23	FA7494-1	1		(sample used for QC only; not part of login FA7521)
11:05	ZZZZZZ	5		
11:21	GP22355-S1	1		
11:37	GP22355-S2	1		
11:53	GN57402-CCV2	1		
12:09	GN57402-CCB1	1		
12:24	ZZZZZZ	1		
12:40	FA7501-12	1		(sample used for QC only; not part of login FA7521)
12:56	ZZZZZZ	1		
13:12	ZZZZZZ	5		
13:28	ZZZZZZ	10		
13:44	ZZZZZZ	10		
14:00	ZZZZZZ	5		
14:16	ZZZZZZ	5		
14:32	ZZZZZZ	5		
14:48	ZZZZZZ	5		
15:04	GN57402-CCV3	1		
15:20	GN57402-CCB2	1		
15:35	ZZZZZZ	5		
15:51	GP22355-S3	1		
16:07	GP22355-S4	1		
16:23	FA7521-1	100		
16:39	GN57402-CCV4	1		
16:55	GN57402-CCB3	1		

Refer to raw data for calibration curve and standards.

Instrument QC Summary
Inorganics Analyses

Login Number: FA7521
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: 313230801.TXT Date Analyzed: 08/23/13 Methods: EPA 300/SW846 9056A
Run ID: GN57402 Units: mg/l

Sample Number	Parameter	Result	RL	IDL/MDL	True Value	% Recov.	QC Limits
GN57402-CCV1	Chloride	49.3	2.0	0.80	50	98.6	90-110
GN57402-CCV1	Nitrogen, Nitrate	2.6	0.10	0.050	2.5	104.0	90-110
GN57402-CCV1	Sulfate	49.3	2.0	0.60	50	98.6	90-110
GN57402-CCV2	Chloride	49.5	2.0	0.80	50	99.0	90-110
GN57402-CCV2	Nitrogen, Nitrate	2.5	0.10	0.050	2.5	100.0	90-110
GN57402-CCV2	Sulfate	49.0	2.0	0.60	50	98.0	90-110
GN57402-CCB1	Chloride	0.80 U	2.0	0.80			
GN57402-CCB1	Nitrogen, Nitrate	0.050 U	0.10	0.050			
GN57402-CCB1	Sulfate	0.60 U	2.0	0.60			
GN57402-CCV3	Chloride	49.2	2.0	0.80	50	98.4	90-110
GN57402-CCV3	Nitrogen, Nitrate	2.5	0.10	0.050	2.5	100.0	90-110
GN57402-CCV3	Sulfate	49.0	2.0	0.60	50	98.0	90-110
GN57402-CCB2	Chloride	0.80 U	2.0	0.80			
GN57402-CCB2	Nitrogen, Nitrate	0.050 U	0.10	0.050			
GN57402-CCB2	Sulfate	0.60 U	2.0	0.60			
GN57402-CCV4	Chloride	50.7	2.0	0.80	50	101.4	90-110
GN57402-CCV4	Nitrogen, Nitrate	2.6	0.10	0.050	2.5	104.0	90-110
GN57402-CCV4	Sulfate	49.5	2.0	0.60	50	99.0	90-110
GN57402-CCB3	Chloride	0.80 U	2.0	0.80			
GN57402-CCB3	Nitrogen, Nitrate	0.050 U	0.10	0.050			
GN57402-CCB3	Sulfate	0.60 U	2.0	0.60			

(!) Outside of QC limits

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA7521
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: 213290801.TXT Date Analyzed: 08/29/13 Methods: EPA 300/SW846 9056A
Analyst: AA Run ID: GN57467
Parameters: Fluoride

Time	Sample Description	Dilution Factor	PS Recov	Comments
10:03	GN57467-CCV1	1		
10:19	GP22376-MB1	1		
10:36	GP22376-B1	1		
10:53	FA7464-6	2		(sample used for QC only; not part of login FA7521)
11:10	ZZZZZZ	25		
11:27	ZZZZZZ	25		
11:44	ZZZZZZ	10		
12:01	FA7521-1	2000		
12:18	GP22376-S1	2		
12:35	GP22376-S2	2		
12:52	GN57467-CCV2	1		
13:09	GP22371-MB1	1		
13:25	GP22371-B1	1		
13:42	FA7577-1	5		(sample used for QC only; not part of login FA7521)
13:59	GP22371-S1	5		
14:16	GP22371-S2	5		
15:01	GN57467-CCV3	1		
15:17	GN57467-CCB1	1		

Refer to raw data for calibration curve and standards.

Instrument QC Summary
Inorganics Analyses

Login Number: FA7521
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: 213290801.TXT Date Analyzed: 08/29/13 Methods: EPA 300/SW846 9056A
Run ID: GN57467 Units: mg/l

Sample Number	Parameter	Result	RL	IDL/MDL	True Value	% Recov.	QC Limits
GN57467-CCV1	Fluoride	2.6	0.20	0.060	2.5	104.0	90-110
GN57467-CCV2	Fluoride	2.7	0.20	0.060	2.5	108.0	90-110
GN57467-CCV3	Fluoride	2.7	0.20	0.060	2.5	108.0	90-110
GN57467-CCB1	Fluoride	0.060 U	0.20	0.060			

(!) Outside of QC limits

Southeast
ACCUTEST LABORATORIES

09/12/13

Technical Report for

WSP Environment & Energy

Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID 36785.01

Accutest Job Number: FA7621

Sampling Date: 08/26/13

Report to:

WSP Environment & Energy
205 West Park Street
Jackson, MO 63755
tim.huff@wspgroup.com

ATTN: Tim Huff

Total number of pages in report: **73**

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Harry Behzadi, Ph.D.
Laboratory Director

Client Service contact: Andrea Colby 407-425-6700

Certifications: FL (E83510), LA (03051), KS (E-10327), IA (366), IL (200063), NC (573), NJ (FL002), SC (96038001) DoD ELAP (L-A-B L2229), CA (04226CA), TX (T104704404), AK, AR, GA, KY, MA, NV, OK, UT, VA, WA, WI

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Sample Summary

WSP Environment & Energy

Job No: FA7621

Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID
Project No: 36785.01

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA7621-1	08/26/13	11:15	TP	08/28/13	AQ	Ground Water	A-27-135
FA7621-1F	08/26/13	11:15	TP	08/28/13	AQ	Groundwater Filtered	A-27-135
FA7621-2	08/26/13	13:00	TP	08/28/13	AQ	Ground Water	A-27-090
FA7621-2F	08/26/13	13:00	TP	08/28/13	AQ	Groundwater Filtered	A-27-090
FA7621-3	08/26/13	14:55	TP	08/28/13	AQ	Ground Water	A-35-155
FA7621-3F	08/26/13	14:55	TP	08/28/13	AQ	Groundwater Filtered	A-35-155

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: WSP Environment & Energy **Job No:** FA7621

Site: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID **Report Date:** 9/11/2013 9:04:00 PM

3 Sample(s) were collected on 08/26/2013 and were received at Accutest SE on 08/28/2013 properly preserved, at 3 Deg. C and intact. These Samples received an Accutest job number of FA7621. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Metals By Method SW846 6010C

Matrix: AQ **Batch ID:** MP25747

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA7617-1DUP, FA7617-1MS, FA7617-1MSD, FA7617-1PS, FA7617-1SDL were used as the QC samples for metals.

RPD(s) for Serial Dilution for Aluminum are outside control limits for sample MP25747-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Wet Chemistry By Method EPA 120.1

Matrix: AQ **Batch ID:** GN57443

Sample(s) FA7621-1DUP were used as the QC samples for Specific Conductivity.

The following samples were run outside of holding time for method EPA 120.1: FA7621-1, FA7621-2, FA7621-3. Samples received outside the holding time.

Wet Chemistry By Method EPA 300/SW846 9056A

Matrix: AQ **Batch ID:** GP22372

All samples were prepped within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA7617-1MS, FA7617-1MSD were used as the QC samples for Chloride, Nitrogen, Nitrate, Sulfate.

Matrix: AQ **Batch ID:** GP22376

All samples were prepped within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA7464-6MSD, FA7464-6MS were used as the QC samples for Fluoride.

Matrix Spike Recovery(s) for Fluoride are outside control limits. Spike recovery indicates possible matrix interference. For method performance in a clean matrix, refer to Blank Spike.

FA7621-1 for Fluoride: Dilution required due to matrix interference.

FA7621-2 for Fluoride: Dilution required due to matrix interference.

FA7621-3 for Fluoride: Dilution required due to matrix interference.

Wet Chemistry By Method EPA 365.3

Matrix: AQ **Batch ID:** GP22385

All samples were prepped within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA7621-1FMS, FA7621-1FMSD were used as the QC samples for Phosphate, Ortho.

Wet Chemistry By Method EPA 365.3

Matrix: AQ **Batch ID:** GP22398

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA7668-5MS, FA7668-5MSD were used as the QC samples for Phosphorus, Total.

Wet Chemistry By Method SM 4500H B/SW 9040C

Matrix: AQ **Batch ID:** GN57442

Sample(s) FA7621-1DUP were used as the QC samples for pH.

FA7621-1 for pH: Field analysis required. Received out of hold time and analyzed by request.

FA7621-2 for pH: Field analysis required. Received out of hold time and analyzed by request.

FA7621-3 for pH: Field analysis required. Received out of hold time and analyzed by request.

Wet Chemistry By Method SM19 2320B

Matrix: AQ **Batch ID:** GN57564

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA7717-3DUP were used as the QC samples for Alkalinity, Total as CaCO3.

Matrix: AQ **Batch ID:** GN57634

All method blanks for this batch meet method specific criteria.

Sample(s) FA7621-1DUP, FA7621-2DUP were used as the QC samples for Alkalinity, Total as CaCO3.

The following samples were run outside of holding time for method SM19 2320B: FA7621-1, FA7621-2. Sample exceeded hold time due to reanalysis.

Wet Chemistry By Method SM19 2540C

Matrix: AQ **Batch ID:** GN57475

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA7660-5DUP were used as the QC samples for Solids, Total Dissolved.

Accutest Laboratories Southeast (ALSE) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALSE and as stated on the COC. ALSE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the ALSE Quality Manual except as noted above. This report is to be used in its entirety. ALSE is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

_____

Kim Benham, Client Services (signature on file)

Date: September 11, 2013

Summary of Hits

Job Number: FA7621
Account: WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID
Collected: 08/26/13

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA7621-1	**A-27-135**					
Aluminum		0.0218 J	0.20	0.015	mg/l	SW846 6010C
Arsenic		0.0462	0.010	0.0025	mg/l	SW846 6010C
Cadmium		0.0012 J	0.0050	0.00050	mg/l	SW846 6010C
Calcium		371	1.0	0.050	mg/l	SW846 6010C
Magnesium		180	5.0	0.074	mg/l	SW846 6010C
Potassium		33.2	10	0.20	mg/l	SW846 6010C
Selenium		0.0476	0.010	0.0020	mg/l	SW846 6010C
Sodium		394	100	5.0	mg/l	SW846 6010C
Alkalinity, Bicarbonate as CaCO3		936	5.0	5.0	mg/l	SM18 4500CO2D
Alkalinity, Total as CaCO3 [a]		938	25	3.0	mg/l	SM19 2320B
Chloride		72.2	50	20	mg/l	EPA 300/SW846 9056A
Nitrogen, Nitrate		44.9	2.5	1.3	mg/l	EPA 300/SW846 9056A
Phosphorus, Total		164	50	14	mg/l	EPA 365.3
Solids, Total Dissolved		4020	500	50	mg/l	SM19 2540C
Specific Conductivity [b]		4420	1.0	1.0	umhos/cm	EPA 120.1
Sulfate		1640	50	15	mg/l	EPA 300/SW846 9056A
pH [c]		6.34			su	SM 4500H B/SW 9040C
FA7621-1F	**A-27-135**					
Phosphate, Ortho		42.9	10	1.9	mg/l	EPA 365.3
FA7621-2	**A-27-090**					
Arsenic		0.0230	0.010	0.0025	mg/l	SW846 6010C
Cadmium		0.00060 J	0.0050	0.00050	mg/l	SW846 6010C
Calcium		353	1.0	0.050	mg/l	SW846 6010C
Magnesium		197	5.0	0.074	mg/l	SW846 6010C
Potassium		45.2	10	0.20	mg/l	SW846 6010C
Selenium		0.0412	0.010	0.0020	mg/l	SW846 6010C
Sodium		245	100	5.0	mg/l	SW846 6010C
Alkalinity, Bicarbonate as CaCO3		674	5.0	5.0	mg/l	SM18 4500CO2D
Alkalinity, Total as CaCO3 [a]		675	25	3.0	mg/l	SM19 2320B
Chloride		45.7 J	50	20	mg/l	EPA 300/SW846 9056A
Nitrogen, Nitrate		81.1	2.5	1.3	mg/l	EPA 300/SW846 9056A
Phosphorus, Total		158	50	14	mg/l	EPA 365.3
Solids, Total Dissolved		3190	500	50	mg/l	SM19 2540C
Specific Conductivity [b]		4220	1.0	1.0	umhos/cm	EPA 120.1
Sulfate		1620	50	15	mg/l	EPA 300/SW846 9056A
pH [c]		6.20			su	SM 4500H B/SW 9040C

Summary of Hits

Job Number: FA7621
Account: WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID
Collected: 08/26/13

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA7621-2F	**A-27-090**					
Phosphate, Ortho		37.2	10	1.9	mg/l	EPA 365.3
FA7621-3	**A-35-155**					
Arsenic		0.0045 J	0.010	0.0025	mg/l	SW846 6010C
Calcium		365	1.0	0.050	mg/l	SW846 6010C
Iron		0.0297 J	0.30	0.029	mg/l	SW846 6010C
Magnesium		162	5.0	0.074	mg/l	SW846 6010C
Potassium		9.32 J	10	0.20	mg/l	SW846 6010C
Sodium		79.2	10	0.50	mg/l	SW846 6010C
Alkalinity, Bicarbonate as CaCO3		416	5.0	5.0	mg/l	SM18 4500CO2D
Alkalinity, Total as CaCO3		417	5.0	0.60	mg/l	SM19 2320B
Chloride		42.4	20	8.0	mg/l	EPA 300/SW846 9056A
Nitrogen, Nitrate		2.1	1.0	0.50	mg/l	EPA 300/SW846 9056A
Phosphorus, Total		0.81	0.20	0.056	mg/l	EPA 365.3
Solids, Total Dissolved		2350	200	20	mg/l	SM19 2540C
Specific Conductivity [b]		2610	1.0	1.0	umhos/cm	EPA 120.1
Sulfate		1330	50	15	mg/l	EPA 300/SW846 9056A
pH [c]		6.98			su	SM 4500H B/SW 9040C
FA7621-3F	**A-35-155**					
Phosphate, Ortho		0.61	0.20	0.038	mg/l	EPA 365.3

(a) Sample exceeded hold time due to reanalysis.
(b) Sample received outside the holding time.
(c) Field analysis required. Received out of hold time and analyzed by request.

Southeast ACCUTEST LABORATORIES

4

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: A-27-135
Lab Sample ID: FA7621-1
Matrix: AQ - Ground Water
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

Date Sampled: 08/26/13
Date Received: 08/28/13
Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	0.0218 J	0.20	0.015	mg/l	1	08/29/13	08/29/13	LM	SW846 6010C [1]	SW846 3010A [3]
Antimony	0.0013 U	0.0060	0.0013	mg/l	1	08/29/13	08/29/13	LM	SW846 6010C [1]	SW846 3010A [3]
Arsenic	0.0462	0.010	0.0025	mg/l	1	08/29/13	08/29/13	LM	SW846 6010C [1]	SW846 3010A [3]
Cadmium	0.0012 J	0.0050	0.00050	mg/l	1	08/29/13	08/29/13	LM	SW846 6010C [1]	SW846 3010A [3]
Calcium	371	1.0	0.050	mg/l	1	08/29/13	08/29/13	LM	SW846 6010C [1]	SW846 3010A [3]
Chromium	0.0020 U	0.010	0.0020	mg/l	1	08/29/13	08/29/13	LM	SW846 6010C [1]	SW846 3010A [3]
Iron	0.029 U	0.30	0.029	mg/l	1	08/29/13	08/29/13	LM	SW846 6010C [1]	SW846 3010A [3]
Magnesium	180	5.0	0.074	mg/l	1	08/29/13	08/29/13	LM	SW846 6010C [1]	SW846 3010A [3]
Potassium	33.2	10	0.20	mg/l	1	08/29/13	08/29/13	LM	SW846 6010C [1]	SW846 3010A [3]
Selenium	0.0476	0.010	0.0020	mg/l	1	08/29/13	08/29/13	LM	SW846 6010C [1]	SW846 3010A [3]
Sodium	394	100	5.0	mg/l	10	08/29/13	08/30/13	LM	SW846 6010C [2]	SW846 3010A [3]

(1) Instrument QC Batch: MA11002
(2) Instrument QC Batch: MA11004
(3) Prep QC Batch: MP25747

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: A-27-135
Lab Sample ID: FA7621-1
Matrix: AQ - Ground Water
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

Date Sampled: 08/26/13
Date Received: 08/28/13
Percent Solids: n/a

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Alkalinity, Bicarbonate as CaC	936	5.0	5.0	mg/l	1	09/11/13 17:00	HH	SM18 4500CO2D
Alkalinity, Carbonate	5.0 U	5.0	5.0	mg/l	1	09/11/13 17:00	HH	SM18 4500CO2D
Alkalinity, Total as CaCO3 [a]	938	25	3.0	mg/l	1	09/11/13 17:00	HH	SM19 2320B
Chloride	72.2	50	20	mg/l	25	08/28/13 11:00	AA	EPA 300/SW846 9056A
Fluoride [b]	1.5 U	5.0	1.5	mg/l	25	08/29/13 11:10	AA	EPA 300/SW846 9056A
Nitrogen, Nitrate	44.9	2.5	1.3	mg/l	25	08/28/13 11:00	AA	EPA 300/SW846 9056A
Phosphorus, Total	164	50	14	mg/l	500	09/03/13 13:13	LE	EPA 365.3
Solids, Total Dissolved	4020	500	50	mg/l	5	08/30/13 18:00	KC	SM19 2540C
Specific Conductivity [c]	4420	1.0	1.0	umhos/cm	1	08/28/13 11:45	AC	EPA 120.1
Sulfate	1640	50	15	mg/l	25	08/28/13 11:00	AA	EPA 300/SW846 9056A
pH [d]	6.34			su	1	08/28/13 11:30	AC	SM 4500H B/SW 9040C

(a) Sample exceeded hold time due to reanalysis.
(b) Dilution required due to matrix interference.
(c) Sample received outside the holding time.
(d) Field analysis required. Received out of hold time and analyzed by request.

RL = Reporting Limit
MDL = Method Detection Limit
U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	A-27-135		
Lab Sample ID:	FA7621-1F	**Date Sampled:**	08/26/13
Matrix:	AQ - Groundwater Filtered	**Date Received:**	08/28/13
		Percent Solids:	n/a
Project:	Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Phosphate, Ortho	42.9	10	1.9	mg/l	100	08/28/13 10:30	KC	EPA 365.3

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: A-27-090
Lab Sample ID: FA7621-2
Matrix: AQ - Ground Water
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

Date Sampled: 08/26/13
Date Received: 08/28/13
Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	0.015 U	0.20	0.015	mg/l	1	08/29/13	08/29/13	LM	SW846 6010C [1]	SW846 3010A [3]
Antimony	0.0013 U	0.0060	0.0013	mg/l	1	08/29/13	08/29/13	LM	SW846 6010C [1]	SW846 3010A [3]
Arsenic	0.0230	0.010	0.0025	mg/l	1	08/29/13	08/29/13	LM	SW846 6010C [1]	SW846 3010A [3]
Cadmium	0.00060 J	0.0050	0.00050	mg/l	1	08/29/13	08/29/13	LM	SW846 6010C [1]	SW846 3010A [3]
Calcium	353	1.0	0.050	mg/l	1	08/29/13	08/29/13	LM	SW846 6010C [1]	SW846 3010A [3]
Chromium	0.0020 U	0.010	0.0020	mg/l	1	08/29/13	08/29/13	LM	SW846 6010C [1]	SW846 3010A [3]
Iron	0.029 U	0.30	0.029	mg/l	1	08/29/13	08/29/13	LM	SW846 6010C [1]	SW846 3010A [3]
Magnesium	197	5.0	0.074	mg/l	1	08/29/13	08/29/13	LM	SW846 6010C [1]	SW846 3010A [3]
Potassium	45.2	10	0.20	mg/l	1	08/29/13	08/29/13	LM	SW846 6010C [1]	SW846 3010A [3]
Selenium	0.0412	0.010	0.0020	mg/l	1	08/29/13	08/29/13	LM	SW846 6010C [1]	SW846 3010A [3]
Sodium	245	100	5.0	mg/l	10	08/29/13	08/30/13	LM	SW846 6010C [2]	SW846 3010A [3]

(1) Instrument QC Batch: MA11002
(2) Instrument QC Batch: MA11004
(3) Prep QC Batch: MP25747

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: A-27-090
Lab Sample ID: FA7621-2
Matrix: AQ - Ground Water
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

Date Sampled: 08/26/13
Date Received: 08/28/13
Percent Solids: n/a

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Alkalinity, Bicarbonate as CaC	674	5.0	5.0	mg/l	1	09/11/13 17:00	HH	SM18 4500CO2D
Alkalinity, Carbonate	5.0 U	5.0	5.0	mg/l	1	09/11/13 17:00	HH	SM18 4500CO2D
Alkalinity, Total as CaCO3 [a]	675	25	3.0	mg/l	1	09/11/13 17:00	HH	SM19 2320B
Chloride	45.7 J	50	20	mg/l	25	08/28/13 11:16	AA	EPA 300/SW846 9056A
Fluoride [b]	1.5 U	5.0	1.5	mg/l	25	08/29/13 11:27	AA	EPA 300/SW846 9056A
Nitrogen, Nitrate	81.1	2.5	1.3	mg/l	25	08/28/13 11:16	AA	EPA 300/SW846 9056A
Phosphorus, Total	158	50	14	mg/l	500	09/03/13 13:13	LE	EPA 365.3
Solids, Total Dissolved	3190	500	50	mg/l	5	08/30/13 18:00	KC	SM19 2540C
Specific Conductivity [c]	4220	1.0	1.0	umhos/cm	1	08/28/13 11:45	AC	EPA 120.1
Sulfate	1620	50	15	mg/l	25	08/28/13 11:16	AA	EPA 300/SW846 9056A
pH [d]	6.20			su	1	08/28/13 11:30	AC	SM 4500H B/SW 9040C

(a) Sample exceeded hold time due to reanalysis.
(b) Dilution required due to matrix interference.
(c) Sample received outside the holding time.
(d) Field analysis required. Received out of hold time and analyzed by request.

RL = Reporting Limit
MDL = Method Detection Limit
U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	A-27-090		
Lab Sample ID:	FA7621-2F	**Date Sampled:**	08/26/13
Matrix:	AQ - Groundwater Filtered	**Date Received:**	08/28/13
		Percent Solids:	n/a
Project:	Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Phosphate, Ortho	37.2	10	1.9	mg/l	100	08/28/13 10:30	KC	EPA 365.3

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: A-35-155
Lab Sample ID: FA7621-3
Matrix: AQ - Ground Water
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

Date Sampled: 08/26/13
Date Received: 08/28/13
Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	0.015 U	0.20	0.015	mg/l	1	08/29/13	08/29/13	LM	SW846 6010C [1]	SW846 3010A [2]
Antimony	0.0013 U	0.0060	0.0013	mg/l	1	08/29/13	08/29/13	LM	SW846 6010C [1]	SW846 3010A [2]
Arsenic	0.0045 J	0.010	0.0025	mg/l	1	08/29/13	08/29/13	LM	SW846 6010C [1]	SW846 3010A [2]
Cadmium	0.00050 U	0.0050	0.00050	mg/l	1	08/29/13	08/29/13	LM	SW846 6010C [1]	SW846 3010A [2]
Calcium	365	1.0	0.050	mg/l	1	08/29/13	08/29/13	LM	SW846 6010C [1]	SW846 3010A [2]
Chromium	0.0020 U	0.010	0.0020	mg/l	1	08/29/13	08/29/13	LM	SW846 6010C [1]	SW846 3010A [2]
Iron	0.0297 J	0.30	0.029	mg/l	1	08/29/13	08/29/13	LM	SW846 6010C [1]	SW846 3010A [2]
Magnesium	162	5.0	0.074	mg/l	1	08/29/13	08/29/13	LM	SW846 6010C [1]	SW846 3010A [2]
Potassium	9.32 J	10	0.20	mg/l	1	08/29/13	08/29/13	LM	SW846 6010C [1]	SW846 3010A [2]
Selenium	0.0020 U	0.010	0.0020	mg/l	1	08/29/13	08/29/13	LM	SW846 6010C [1]	SW846 3010A [2]
Sodium	79.2	10	0.50	mg/l	1	08/29/13	08/29/13	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA11002
(2) Prep QC Batch: MP25747

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: A-35-155
Lab Sample ID: FA7621-3
Matrix: AQ - Ground Water
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

Date Sampled: 08/26/13
Date Received: 08/28/13
Percent Solids: n/a

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Alkalinity, Bicarbonate as CaC	416	5.0	5.0	mg/l	1	09/06/13 11:15	HH	SM18 4500CO2D
Alkalinity, Carbonate	5.0 U	5.0	5.0	mg/l	1	09/06/13 11:15	HH	SM18 4500CO2D
Alkalinity, Total as CaCO3	417	5.0	0.60	mg/l	1	09/06/13 11:15	AC	SM19 2320B
Chloride	42.4	20	8.0	mg/l	10	08/28/13 11:31	AA	EPA 300/SW846 9056A
Fluoride [a]	0.60 U	2.0	0.60	mg/l	10	08/29/13 11:44	AA	EPA 300/SW846 9056A
Nitrogen, Nitrate	2.1	1.0	0.50	mg/l	10	08/28/13 11:31	AA	EPA 300/SW846 9056A
Phosphorus, Total	0.81	0.20	0.056	mg/l	2	09/03/13 13:13	LE	EPA 365.3
Solids, Total Dissolved	2350	200	20	mg/l	2	08/30/13 18:00	KC	SM19 2540C
Specific Conductivity [b]	2610	1.0	1.0	umhos/cm	1	08/28/13 11:45	AC	EPA 120.1
Sulfate	1330	50	15	mg/l	25	08/28/13 17:54	AA	EPA 300/SW846 9056A
pH [c]	6.98			su	1	08/28/13 11:30	AC	SM 4500H B/SW 9040C

(a) Dilution required due to matrix interference.
(b) Sample received outside the holding time.
(c) Field analysis required. Received out of hold time and analyzed by request.

RL = Reporting Limit
MDL = Method Detection Limit
U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	A-35-155		
Lab Sample ID:	FA7621-3F	**Date Sampled:**	08/26/13
Matrix:	AQ - Groundwater Filtered	**Date Received:**	08/28/13
		Percent Solids:	n/a
Project:	Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Phosphate, Ortho	0.61	0.20	0.038	mg/l	2	08/28/13 10:30	KC	EPA 365.3

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Southeast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

Accutest Laboratories Southeast
Chain of Custody

ACCUTEST LABORATORIES

4405 Vineland Road, Suite C-15 Orlando, Fl 32811
TEL. 407-425-6700 • FAX: 407-425-0707
www.accutest.com

Accutest JOB # FA7621 PAGE_____OF_____

Accutest Quote # | SKIFF#

Client / Reporting Information

Company Name: WSP ENV & ENG
Address: 205 W. Park St
City: Jackson State: Mo Zip: 63755
Project Contact: Tim Huff E-mail: Tim.Huff@wspgroup.com
Phone#: 571-217-6759
Sampler(s) Name(s) (Printed): Taylor Pattie

Project Information

Project Name:
Street
City State
Project #
Fax #
Client Purchase Order #

Analytical Information

SEE ATTACHED

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL - Sludge
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe

Accutest Sample #	Field ID / Point of Collection	DATE	TIME	SAMPLED BY:	MATRIX	TOTAL # OF BOTTLES	OTHER	NONE	HCl	NaOH	HNO3	H2SO4	NAOH+ZNAC	DI WATER	MEOH	SEE ATTACHED	LAB USE ONLY
1	A-27-135	082613	1115	TP	GW	4		X			X	X				X	
2	A-27-090	|	1300	|	|	4		X			X	X				X	
3	A-35-155	|	1455	|	|	4		X			X	X				X	

TURNAROUND TIME (Business Days)

Approved By: / Rush Code

- ☐ 10 Days Standard
- ☐ 7 Day RUSH
- ☐ 5 Day RUSH
- ☐ 3 Day EMERGENCY
- ☐ 2 Day EMERGENCY
- ☐ 1 Day EMERGENCY
- ☐ OTHER

Emergency or Rush T/A Data Available VIA Email or Lablink

Data Deliverable Information

- ☐ COMMERCIAL "A" (RESULTS ONLY)
- ☐ COMMERCIAL "B" (RESULTS PLUS QC)
- ☐ REDT1 (EPA LEVEL 3)
- ☐ FULT1 (EPA LEVEL 4)
- ☐ EDD'S

Comments / Remarks

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished by:	Date Time:	Received By:
1 Taylor Pattie	082713 0900	2 FX	3 FX	8-28-13	4 J. Cooper (AISE) 09:15
Relinquished by: 5	Date Time:	Received By: 6	Relinquished by: 7	Date Time:	Received By: 8

Lab Use Only: Custody Seal in Place: Y N Temp Blank Provided: Y N Preserved where Applicable: Y N Total # of Coolers: 1 Cooler Temperature (s) Celsius: 3.0

5.1

5

FA7621: Chain of Custody
Page 1 of 3

O-Phos - Field Filtered

Note: A-34-022 High Phosphate

Analyte List #2 (groundwater samples and groundwater sampling equipment blanks)

- total dissolved solids (TDS)
- Total metals - aluminum, antimony, arsenic, cadmium, calcium, chromium, iron, magnesium, potassium, selenium, and sodium
- chloride, fluoride, nitrate as N, and sulfate
- pH
- total phosphorous
- dissolved orthophosphate
- bicarbonate and carbonate alkalinity as CaCO3
- specific conductance

NOTE – If turbidity at the time of sampling is greater than 50 NTU, collect dissolved metals sample and submit to laboratory ON HOLD for the same analyte list as the total metals sample.

5.1 5

FA7621: Chain of Custody
Page 2 of 3

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: FA7621 CLIENT: WSP PROJECT: ?

DATE/TIME RECEIVED: 8-28-13 0915 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 1

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 8033 5737 3995

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET
- [ ] WET ICE PRESENT

TRIP BLANK INFORMATION

- [ ] TRIP BLANK PROVIDED
- [X] TRIP BLANK NOT PROVIDED
- [X] TRIP BLANK NOT ON COC
- [ ] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [ ] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM_____ 5-GRAM_____

NUMBER OF 5035 FIELD KITS ? _____

NUMBER OF LAB FILTERED METALS ? _____

TEMPERATURE INFORMATION

- [ ] IR THERM ID 1 CORR. FACTOR +0.4
- [ ] OBSERVED TEMPS: 2.6
- [ ] CORRECTED TEMPS: 3.0

SAMPLE INFORMATION

- [ ] SAMPLE LABELS PRESENT ON ALL BOTTLES
- [ ] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] 5035 FIELD KIT FROZEN WITHIN 48 HOUR'S
- [ ] RESIDUAL CHLORINE PRESENT

{APPICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

SUMMARY OF COMMENTS: NO PROJECT NAME ON COC

TECHNICIAN SIGNATURE/DATE: 8-28-13 REVIEWER SIGNATURE/DATE: 08/28/13

NF 12/10

receipt confirmation 122910.xls

FA7621: Chain of Custody
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Southeast ACCUTEST LABORATORIES

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Instrument Runlogs
- Initial and Continuing Calibration Blanks
- Initial and Continuing Calibration Checks
- High and Low Check Standards
- Interfering Element Check Standards
- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA7621
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB082913M1.ICP Date Analyzed: 08/29/13 Methods: SW846 6010C
Analyst: LM Run ID: MA11002
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
08:00	MA11002-STD1	1		STDA
08:09	MA11002-STD2	1		STDB
08:15	MA11002-STD3	1		STDC
08:18	MA11002-STD4	1		STDD
08:23	MA11002-HSTD1	1		
08:31	MA11002-ICV1	1		
08:41	MA11002-ICB1	1		
08:45	MA11002-CRIA1	1		
08:54	MA11002-ICSA1	1		
09:05	MA11002-ICSAB1	1		
09:16	MA11002-CCV1	1		
09:22	MA11002-CCB1	1		
09:29	MP25743-MB1	1		
09:33	MP25743-B1	1		
09:37	FA7613-1	1		(sample used for QC only; not part of login FA7621)
09:41	MP25743-D1	1		
09:45	MP25743-SD1	5		
09:49	MP25743-PS1	1		
09:53	MP25743-S1	1		
09:57	MP25743-S2	1		
10:01	ZZZZZZ	1		
10:06	ZZZZZZ	1		
10:10	MA11002-CCV2	1		
10:14	MA11002-CCB2	1		
10:18	ZZZZZZ	1		
10:22	ZZZZZZ	1		
10:27	ZZZZZZ	1		
10:31	ZZZZZZ	1		
10:35	ZZZZZZ	1		
10:39	ZZZZZZ	1		
10:43	ZZZZZZ	1		
10:48	ZZZZZZ	1		
10:52	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA7621
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB082913M1.ICP Date Analyzed: 08/29/13 Methods: SW846 6010C
Analyst: LM Run ID: MA11002
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
10:56	ZZZZZZ	1		
11:00	MA11002-CCV3	1		
11:04	MA11002-CCB3	1		
11:09	ZZZZZZ	1		
11:13	ZZZZZZ	1		
11:17	ZZZZZZ	1		
11:21	ZZZZZZ	1		
11:26	ZZZZZZ	1		
11:30	ZZZZZZ	1		
11:34	MA11002-CCV4	1		
11:38	MA11002-CCB4	1		
11:51	MP25747-MB1	1		
11:56	MP25747-B1	1		
12:00	FA7617-1	1		(sample used for QC only; not part of login FA7621)
12:04	MP25747-D1	1		
12:08	MP25747-SD1	5		
12:12	MP25747-PS1	1		
12:16	MP25747-S1	1		
12:20	MP25747-S2	1		
12:24	ZZZZZZ	1		
12:29	ZZZZZZ	1		
12:33	MA11002-CCV5	1		
12:37	MA11002-CCB5	1		
12:41	ZZZZZZ	1		
12:45	ZZZZZZ	1		
12:50	ZZZZZZ	1		
12:54	ZZZZZZ	1		
12:58	ZZZZZZ	1		
13:07	ZZZZZZ	1		
13:11	ZZZZZZ	1		
13:20	ZZZZZZ	1		
13:24	MA11002-CCV6	1		
13:28	MA11002-CCB6	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA7621
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB082913M1.ICP Date Analyzed: 08/29/13 Methods: SW846 6010C
Analyst: LM Run ID: MA11002
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
13:32	ZZZZZZ	1		
13:37	FA7621-1	1		
13:41	FA7621-2	1		
13:46	FA7621-3	1		
13:50	ZZZZZZ	1		
13:54	ZZZZZZ	1		
13:59	ZZZZZZ	1		
14:03	MP25747-MB2A	1		
---------->	Last reportable sample/prep for job FA7621			
14:07	MA11002-CCV7	1		
14:11	MA11002-CCB7	1		
14:58	MA11002-CRIA2	1		
15:02	MA11002-ICSA2	1		
15:07	MA11002-ICSAB2	1		
15:11	MA11002-CCV8	1		
15:16	MA11002-CCB8	1		
---------->	Last reportable CCB for job FA7621			
	Refer to raw data for calibration curve and standards.			

INTERNAL STANDARD SUMMARY

Login Number: FA7621
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB082913M1.ICP Date Analyzed: 08/29/13 Methods: SW846 6010C
Analyst: LM Run ID: MA11002
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
08:00	MA11002-STD1	4103	34363	9752	1853
08:09	MA11002-STD2	4030	33563	9637	1744
08:15	MA11002-STD3	3873	32031	9409	1564
08:18	MA11002-STD4	3693	30673	9298	1415
08:23	MA11002-HSTD1	3695	30859	9358	1416
08:31	MA11002-ICV1	3853	31830	9501	1556
08:41	MA11002-ICB1	4017 R	33578 R	9661 R	1806 R
08:45	MA11002-CRIA1	3967	32601	9527	1741
08:54	MA11002-ICSA1	3480	27920	9022	1376
09:05	MA11002-ICSAB1	3487	28113	9105	1355
09:16	MA11002-CCV1	3844	31339	9416	1530
09:22	MA11002-CCB1	3980	32717	9449	1772
09:29	MP25743-MB1	3957	32758	9549	1753
09:33	MP25743-B1	3822	31104	9375	1597
09:37	FA7613-1	3901	31938	9528	1654
09:41	MP25743-D1	3970	32874	9641	1710
09:45	MP25743-SD1	3983	32862	9542	1749
09:49	MP25743-PS1	3992	32587	9756	1657
09:53	MP25743-S1	4024	32733	9931	1569
09:57	MP25743-S2	3971	32164	9829	1578
10:01	ZZZZZZ	3971	32733	9614	1754
10:06	ZZZZZZ	3931	32445	9562	1737
10:10	MA11002-CCV2	3832	31041	9297	1520
10:14	MA11002-CCB2	4017	32843	9511	1784
10:18	ZZZZZZ	3992	32672	9647	1705
10:22	ZZZZZZ	3934	32107	9406	1701
10:27	ZZZZZZ	3975	32806	9604	1754
10:31	ZZZZZZ	3901	31937	9473	1687
10:35	ZZZZZZ	3940	32444	9578	1740
10:39	ZZZZZZ	3958	32624	9595	1741
10:43	ZZZZZZ	3829	31652	9300	1693
10:48	ZZZZZZ	3838	31662	9330	1701
10:52	ZZZZZZ	3889	32525	9465	1732

INTERNAL STANDARD SUMMARY

Login Number: FA7621
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB082913M1.ICP Date Analyzed: 08/29/13 Methods: SW846 6010C
Analyst: LM Run ID: MA11002
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
10:56	ZZZZZZ	3823	31805	9342	1706
11:00	MA11002-CCV3	3849	31751	9503	1546
11:04	MA11002-CCB3	3960	32853	9509	1780
11:09	ZZZZZZ	3808	31761	9330	1700
11:13	ZZZZZZ	3923	32853	9688	1741
11:17	ZZZZZZ	3828	31616	9399	1702
11:21	ZZZZZZ	3819	31859	9101	1707
11:26	ZZZZZZ	3836	32018	9356	1711
11:30	ZZZZZZ	3853	32179	9512	1693
11:34	MA11002-CCV4	3840	31767	9421	1544
11:38	MA11002-CCB4	3937	32908	9441	1776
11:51	MP25747-MB1	3890	32780	9529	1757
11:56	MP25747-B1	3840	31893	9510	1622
12:00	FA7617-1	3810	31731	9527	1668
12:04	MP25747-D1	3814	31937	9501	1672
12:08	MP25747-SD1	3940	32902	9545	1764
12:12	MP25747-PS1	3787	31593	9415	1632
12:16	MP25747-S1	3802	31581	9551	1583
12:20	MP25747-S2	3766	31318	9394	1569
12:24	ZZZZZZ	3709	31022	9351	1583
12:29	ZZZZZZ	3822	31994	9526	1667
12:33	MA11002-CCV5	3796	31192	9272	1528
12:37	MA11002-CCB5	3935	32940	9539	1770
12:41	ZZZZZZ	3728	31146	9323	1620
12:45	ZZZZZZ	3717	31082	9403	1607
12:50	ZZZZZZ	3836	31988	9469	1681
12:54	ZZZZZZ	3766	31581	9392	1647
12:58	ZZZZZZ	3728	31319	9387	1609
13:07	ZZZZZZ	3876	32275	9629	1661
13:11	ZZZZZZ	3927	32854	9585	1756
13:20	ZZZZZZ	4029	33385	9945	1677
13:24	MA11002-CCV6	3862	31549	9454	1553
13:28	MA11002-CCB6	4006	33387	9695	1804

INTERNAL STANDARD SUMMARY

Login Number: FA7621
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB082913M1.ICP Date Analyzed: 08/29/13 Methods: SW846 6010C
Analyst: LM Run ID: MA11002
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
13:32	ZZZZZZ	3924	32629	9575	1742
13:37	FA7621-1	3455	28506	8948	1365
13:41	FA7621-2	3476	28631	8996	1384
13:46	FA7621-3	3526	29441	9046	1446
13:50	ZZZZZZ	3860	32079	9574	1679
13:54	ZZZZZZ	3851	32116	9498	1697
13:59	ZZZZZZ	3836	32050	9564	1685
14:03	MP25747-MB2A	3894	32677	9599	1755
14:07	MA11002-CCV7	3821	31493	9386	1537
14:11	MA11002-CCB7	3957	32993	9571	1781
14:58	MA11002-CRIA2	3872	32118	9398	1718
15:02	MA11002-ICSA2	3443	27754	8980	1371
15:07	MA11002-ICSAB2	3439	28223	9188	1352
15:11	MA11002-CCV8	3785	31734	9396	1536
15:16	MA11002-CCB8	3908	32828	9401	1772

R = Reference for ISTD limits. ! = Outside limits.

LEGEND:

Istd#	Parameter	Limits
Istd#1	Yttrium (2243)	60-125 %
Istd#2	Yttrium (3600)	60-125 %
Istd#3	Yttrium (3710)	60-125 %
Istd#4	Indium	60-125 %

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: FA7621
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB082913M1.ICP Date Analyzed: 08/29/13 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA11002 Units: ug/l

Time: / Sample ID:			08:41 ICB1		09:22 CCB1		10:14 CCB2		11:04 CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	15	4.9	<200	11.3	<200	9.6	<200	5.5	<200
Antimony	20	1.3	0.0	<20	-0.70	<20	-0.50	<20	0.50	<20
Arsenic	10	1.6	0.80	<10	0.60	<10	0.70	<10	0.60	<10
Barium	200	1	anr							
Beryllium	5.0	.5								
Cadmium	4.0	.5	0.0	<4.0	0.0	<4.0	0.0	<4.0	0.0	<4.0
Calcium	5000	50	1.7	<5000	3.6	<5000	5.1	<5000	9.8	<5000
Chromium	10	1.8	-0.20	<10	-0.20	<10	-0.50	<10	0.0	<10
Cobalt	50	.5								
Copper	25	1								
Iron	300	29	-2.4	<300	-0.20	<300	4.8	<300	9.8	<300
Lead	20	1.1	anr							
Magnesium	5000	74	-6.2	<5000	-4.9	<5000	-8.9	<5000	4.5	<5000
Manganese	15	.7								
Molybdenum	50	.6								
Nickel	40	.5								
Potassium	10000	200	-3.0	<10000	-23	<10000	-39	<10000	-35	<10000
Selenium	20	2	-0.10	<20	1.0	<20	-1.1	<20	-0.60	<20
Silver	10	.5								
Sodium	10000	500	-17	<10000	-29	<10000	-29	<10000	-22	<10000
Strontium	10	.5								
Thallium	10	1.3								
Tin	50	.7								
Titanium	10	.9								
Vanadium	50	.5	anr							
Zinc	20	3								

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: FA7621
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB082913M1.ICP Date Analyzed: 08/29/13 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA11002 Units: ug/l

Time: / Sample ID:			11:38 CCB4		12:37 CCB5		13:28 CCB6		14:11 CCB7	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	15	4.2	<200	5.7	<200	6.4	<200	7.8	<200
Antimony	20	1.3	0.40	<20	0.40	<20	0.20	<20	0.50	<20
Arsenic	10	1.6	0.40	<10	0.80	<10	1.0	<10	0.70	<10
Barium	200	1	anr							
Beryllium	5.0	.5								
Cadmium	4.0	.5	0.0	<4.0	0.0	<4.0	0.10	<4.0	0.10	<4.0
Calcium	5000	50	5.8	<5000	5.8	<5000	4.4	<5000	3.6	<5000
Chromium	10	1.8	-0.10	<10	-0.10	<10	0.10	<10	0.0	<10
Cobalt	50	.5								
Copper	25	1								
Iron	300	29	5.4	<300	5.0	<300	4.1	<300	5.9	<300
Lead	20	1.1	anr							
Magnesium	5000	74	-6.6	<5000	0.40	<5000	-5.2	<5000	-7.1	<5000
Manganese	15	.7								
Molybdenum	50	.6								
Nickel	40	.5								
Potassium	10000	200	-21	<10000	-28	<10000	-11	<10000	-19	<10000
Selenium	20	2	-0.40	<20	-0.70	<20	0.70	<20	-0.20	<20
Silver	10	.5								
Sodium	10000	500	-30	<10000	-25	<10000	4.8	<10000	-8.0	<10000
Strontium	10	.5								
Thallium	10	1.3								
Tin	50	.7								
Titanium	10	.9								
Vanadium	50	.5	anr							
Zinc	20	3								

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: FA7621
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB082913M1.ICP Date Analyzed: 08/29/13 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA11002 Units: ug/l

Time:			15:16	
Sample ID:			CCB8	
Metal	RL	IDL	raw	final
Aluminum	200	15	9.1	<200
Antimony	20	1.3	-0.20	<20
Arsenic	10	1.6	1.1	<10
Barium	200	1	anr	
Beryllium	5.0	.5		
Cadmium	4.0	.5	0.0	<4.0
Calcium	5000	50	9.9	<5000
Chromium	10	1.8	0.0	<10
Cobalt	50	.5		
Copper	25	1		
Iron	300	29	8.0	<300
Lead	20	1.1	anr	
Magnesium	5000	74	-10	<5000
Manganese	15	.7		
Molybdenum	50	.6		
Nickel	40	.5		
Potassium	10000	200	-61	<10000
Selenium	20	2	0.40	<20
Silver	10	.5		
Sodium	10000	500	-15	<10000
Strontium	10	.5		
Thallium	10	1.3		
Tin	50	.7		
Titanium	10	.9		
Vanadium	50	.5	anr	
Zinc	20	3		

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA7621
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB082913M1.ICP Date Analyzed: 08/29/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA11002 Units: ug/l

Time:		08:31			09:16			10:10	
Sample ID:	ICV	ICV1		CCV	CCV1		CCV	CCV2	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	39300	98.3	40000	39700	99.3	40000	40400	101.0
Antimony	2000	1960	98.0	2000	1900	95.0	2000	1910	95.5
Arsenic	2000	1960	98.0	2000	1920	96.0	2000	1930	96.5
Barium	anr								
Beryllium									
Cadmium	2000	1990	99.5	2000	2000	100.0	2000	2030	101.5
Calcium	40000	40600	101.5	40000	39700	99.3	40000	40800	102.0
Chromium	2000	2010	100.5	2000	2010	100.5	2000	2060	103.0
Cobalt									
Copper									
Iron	40000	40300	100.8	40000	41200	103.0	40000	42400	106.0
Lead	anr								
Magnesium	40000	38200	95.5	40000	38400	96.0	40000	39200	98.0
Manganese									
Molybdenum									
Nickel									
Potassium	40000	40500	101.3	40000	41200	103.0	40000	42300	105.8
Selenium	2000	1980	99.0	2000	1920	96.0	2000	1930	96.5
Silver									
Sodium	40000	40500	101.3	40000	40600	101.5	40000	41300	103.3
Strontium									
Thallium									
Tin									
Titanium									
Vanadium	anr								
Zinc									

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA7621
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB082913M1.ICP Date Analyzed: 08/29/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA11002 Units: ug/l

Time:		11:00			11:34			12:33	
Sample ID:	CCV	CCV3		CCV	CCV4		CCV	CCV5	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	39700	99.3	40000	40000	100.0	40000	40300	100.8
Antimony	2000	1950	97.5	2000	1960	98.0	2000	1970	98.5
Arsenic	2000	1960	98.0	2000	1970	98.5	2000	1980	99.0
Barium	anr								
Beryllium									
Cadmium	2000	2010	100.5	2000	2010	100.5	2000	2020	101.0
Calcium	40000	39800	99.5	40000	39900	99.8	40000	40400	101.0
Chromium	2000	2010	100.5	2000	2020	101.0	2000	2030	101.5
Cobalt									
Copper									
Iron	40000	40800	102.0	40000	41000	102.5	40000	41300	103.3
Lead	anr								
Magnesium	40000	39000	97.5	40000	39300	98.3	40000	39700	99.3
Manganese									
Molybdenum									
Nickel									
Potassium	40000	40500	101.3	40000	40500	101.3	40000	41000	102.5
Selenium	2000	1960	98.0	2000	1970	98.5	2000	1980	99.0
Silver									
Sodium	40000	40200	100.5	40000	40100	100.3	40000	40700	101.8
Strontium									
Thallium									
Tin									
Titanium									
Vanadium	anr								
Zinc									

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA7621
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB082913M1.ICP Date Analyzed: 08/29/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA11002 Units: ug/l

Time:		13:24			14:07			15:11	
Sample ID:	CCV	CCV6		CCV	CCV7		CCV	CCV8	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	39800	99.5	40000	40300	100.8	40000	40500	101.3
Antimony	2000	1940	97.0	2000	1950	97.5	2000	2020	101.0
Arsenic	2000	1950	97.5	2000	1960	98.0	2000	2020	101.0
Barium	anr								
Beryllium									
Cadmium	2000	2000	100.0	2000	2020	101.0	2000	2040	102.0
Calcium	40000	39500	98.8	40000	40100	100.3	40000	40600	101.5
Chromium	2000	2010	100.5	2000	2020	101.0	2000	2040	102.0
Cobalt									
Copper									
Iron	40000	40700	101.8	40000	41200	103.0	40000	41100	102.8
Lead	anr								
Magnesium	40000	38800	97.0	40000	39300	98.3	40000	40300	100.8
Manganese									
Molybdenum									
Nickel									
Potassium	40000	40200	100.5	40000	41100	102.8	40000	40700	101.8
Selenium	2000	1950	97.5	2000	1970	98.5	2000	2030	101.5
Silver									
Sodium	40000	39700	99.3	40000	40700	101.8	40000	40900	102.3
Strontium									
Thallium									
Tin									
Titanium									
Vanadium	anr								
Zinc									

(*) Outside of QC limits
(anr) Analyte not requested

HIGH STANDARD CHECK SUMMARY

Login Number: FA7621
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB082913M1.ICP Date Analyzed: 08/29/13 Methods: SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA11002 Units: ug/l

Time:		08:23	
Sample ID:	HSTD	HSTD1	
Metal	True	Results	% Rec
Aluminum	80000	80400	100.5
Antimony	4000	4060	101.5
Arsenic	4000	4050	101.3
Barium	anr		
Beryllium			
Cadmium	4000	4010	100.3
Calcium	80000	79400	99.3
Chromium	4000	3990	99.8
Cobalt			
Copper			
Iron	80000	79000	98.8
Lead	anr		
Magnesium	80000	80000	100.0
Manganese			
Molybdenum			
Nickel			
Potassium	80000	80500	100.6
Selenium	4000	4040	101.0
Silver			
Sodium	80000	80500	100.6
Strontium			
Thallium			
Tin			
Titanium			
Vanadium	anr		
Zinc			

(*) Outside of QC limits
(anr) Analyte not requested

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: FA7621
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB082913M1.ICP Date Analyzed: 08/29/13 Methods: SW846 6010C
QC Limits: CRI 70-130% CRIA 70-130% Run ID: MA11002 Units: ug/l

Time:			08:45		14:58	
Sample ID:	CRI	CRIA	CRIA1		CRIA2	
Metal	True	True	Results	% Rec	Results	% Rec
Aluminum	400	200	195	97.5	205	102.5
Antimony	10	5.0	4.8	96.0	4.6	92.0
Arsenic	20	10	10.8	108.0	10.8	108.0
Barium	400	200	anr			
Beryllium	10	5.0				
Cadmium	10	5.0	5.1	102.0	5.2	104.0
Calcium	2000	1000	1020	102.0	1040	104.0
Chromium	20	10	10.2	102.0	10.4	104.0
Cobalt	100	50				
Copper	50	25				
Iron	600	300	309	103.0	317	105.7
Lead	10	5.0	anr			
Magnesium	10000	5000	4800	96.0	4840	96.8
Manganese	30	15				
Molybdenum	100	50				
Nickel	80	40				
Potassium	20000	10000	9980	99.8	10400	104.0
Selenium	20	10	7.4	74.0	8.6	86.0
Silver	20	10				
Sodium	20000	10000	9790	97.9	10100	101.0
Strontium	20	10				
Thallium	20	10				
Tin	100	50				
Titanium	20	10				
Vanadium	100	50	anr			
Zinc	40	20				

(*) Outside of QC limits
(anr) Analyte not requested

INTERFERING ELEMENT CHECK STANDARDS SUMMARY
Part 1 - ICSA and ICSAB Standards

Login Number: FA7621
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB082913M1.ICP Date Analyzed: 08/29/13 Methods: SW846 6010C
QC Limits: 80 to 120 % Recovery Run ID: MA11002 Units: ug/l

Time:			08:54		09:05		15:02		15:07	
Sample ID:	ICSA	ICSAB	ICSA1		ICSAB1		ICSA2		ICSAB2	
Metal	True	True	Results	% Rec	Results	% Rec	Results	% Rec	Results	% Rec
Aluminum	500000	500000	508000	101.6	503000	100.6	514000	102.8	516000	103.2
Antimony		1000	-0.40		987	98.7	0.60		1040	104.0
Arsenic		1000	1.1		993	99.3	-0.20		1040	104.0
Barium		500	-0.10		507	101.4	0.10		517	103.4
Beryllium		500	-0.10		499	99.8	0.0		497	99.4
Cadmium		1000	0.0		922	92.2	0.50		943	94.3
Calcium	500000	500000	465000	93.0	465000	93.0	473000	94.6	465000	93.0
Chromium		500	-0.60		480	96.0	-0.30		484	96.8
Cobalt		500	2.0		461	92.2	2.0		470	94.0
Copper		500	0.0		555	111.0	-0.40		550	110.0
Iron	200000	200000	183000	91.5	181000	90.5	183000	91.5	181000	90.5
Lead		1000	-0.50		926	92.6	-2.1		930	93.0
Magnesium	500000	500000	493000	98.6	490000	98.0	503000	100.6	499000	99.8
Manganese		500	-0.30		480	96.0	-0.10		498	99.6
Molybdenum		1000	-0.60		943	94.3	-0.60		960	96.0
Nickel		1000	0.40		889	88.9	0.80		926	92.6
Potassium			-8.6		-1.4		-3.9		-5.5	
Selenium		1000	0.0		959	95.9	3.3		1010	101.0
Silver		1000	0.40		972	97.2	0.40		998	99.8
Sodium			66.9		65.6		87.6		79.8	
Strontium		1000	12.2		1030	103.0	12.4		1030	103.0
Thallium		1000	-1.1		914	91.4	-1.5		921	92.1
Tin		1000	0.70		923	92.3	0.20		956	95.6
Titanium		1000	-3.8		1010	101.0	-4.2		1000	100.0
Vanadium		500	-0.30		481	96.2	0.0		493	98.6
Zinc		1000	-1.6		921	92.1	-1.0		935	93.5

(*) Outside of QC limits
(anr) Analyte not requested

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA7621
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA083013M1.ICP Date Analyzed: 08/30/13 Methods: SW846 6010C
Analyst: LM Run ID: MA11004
Parameters: Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
05:33	MA11004-STD1	1		STDA
05:38	MA11004-STD2	1		STDB
05:41	MA11004-STD3	1		STDC
05:45	MA11004-STD4	1		STDD
05:49	MA11004-HSTD1	1		
05:53	MA11004-ICV1	1		
05:59	MA11004-ICB1	1		
06:13	MA11004-CRIA1	1		
06:17	MA11004-ICSA1	1		
06:23	MA11004-ICSAB1	1		
06:30	MA11004-CCV1	1		
06:36	MA11004-CCB1	1		
06:40	MP25751-MB1	1		
06:44	MP25751-B1	1		
06:48	FA7654-1	1		(sample used for QC only; not part of login FA7621)
06:53	MP25751-D1	1		
06:58	MP25751-SD1	5		
07:03	MP25751-PS1	1		
07:08	MP25751-S1	1		
07:13	MP25751-S2	1		
07:18	ZZZZZZ	1		
07:22	ZZZZZZ	1		
07:27	MA11004-CCV2	1		
07:31	MA11004-CCB2	1		
07:36	ZZZZZZ	1		
07:40	ZZZZZZ	1		
07:45	ZZZZZZ	1		
07:49	ZZZZZZ	1		
07:54	ZZZZZZ	1		
07:58	ZZZZZZ	1		
08:03	ZZZZZZ	1		
08:08	ZZZZZZ	1		
08:12	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA7621
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA083013M1.ICP Date Analyzed: 08/30/13 Methods: SW846 6010C
Analyst: LM Run ID: MA11004
Parameters: Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
08:17	ZZZZZZ	1		
08:21	MA11004-CCV3	1		
08:25	MA11004-CCB3	1		
08:30	ZZZZZZ	1		
08:34	ZZZZZZ	1		
08:39	ZZZZZZ	1		
08:44	ZZZZZZ	1		
08:48	ZZZZZZ	1		
08:53	ZZZZZZ	1		
08:58	ZZZZZZ	1		
09:02	ZZZZZZ	20		
09:07	ZZZZZZ	20		
09:11	FA7621-1	10		
09:15	MA11004-CCV4	1		
09:20	MA11004-CCB4	1		
09:24	FA7621-2	10		
---------->	Last reportable sample/prep for job FA7621			
09:29	MA11004-CCV5	1		
09:33	MA11004-CCB5	1		
11:06	MA11004-CCV6	1		
11:16	MA11004-CCB6	1		
11:26	MP25755-MB1	1		
11:31	MP25755-B1	1		
11:35	FA7627-1	1		(sample used for QC only; not part of login FA7621)
11:39	MP25755-D1	1		
11:44	MP25755-SD1	5		
11:48	MP25755-PS1	1		
11:53	MP25755-S1	1		
11:57	MP25755-S2	1		
12:02	ZZZZZZ	1		
12:07	ZZZZZZ	1		
12:11	MA11004-CCV7	1		
12:15	MA11004-CCB7	1		
12:20	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA7621
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA083013M1.ICP Date Analyzed: 08/30/13 Methods: SW846 6010C
Analyst: LM Run ID: MA11004
Parameters: Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
12:24	ZZZZZZ	1		
12:29	ZZZZZZ	1		
12:33	ZZZZZZ	1		
12:38	ZZZZZZ	1		
12:43	ZZZZZZ	1		
12:47	ZZZZZZ	1		
12:52	ZZZZZZ	1		
12:57	ZZZZZZ	1		
13:01	ZZZZZZ	1		
13:06	MA11004-CCV8	1		
13:10	MA11004-CCB8	1		
13:15	ZZZZZZ	1		
13:19	ZZZZZZ	1		
13:24	ZZZZZZ	1		
13:28	ZZZZZZ	1		
13:33	ZZZZZZ	1		
13:38	ZZZZZZ	1		
13:42	ZZZZZZ	1		
13:47	MP25757-MB1	1		
13:51	MP25757-B1	1		
13:56	FA7672-1	1		(sample used for QC only; not part of login FA7621)
14:00	MA11004-CCV9	1		
14:04	MA11004-CCB9	1		
14:09	MP25757-D1	1		
14:13	MP25757-SD1	5		
14:18	MP25757-PS1	1		
14:22	MP25757-S1	1		
14:26	MP25757-S2	1		
14:30	ZZZZZZ	1		
14:35	ZZZZZZ	1		
14:39	ZZZZZZ	1		
14:44	ZZZZZZ	1		
14:48	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA7621
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA083013M1.ICP Date Analyzed: 08/30/13 Methods: SW846 6010C
Analyst: LM Run ID: MA11004
Parameters: Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
14:53	MA11004-CCV10	1		
14:57	MA11004-CCB10	1		
15:01	ZZZZZZ	1		
15:06	ZZZZZZ	1		
15:10	ZZZZZZ	1		
15:15	ZZZZZZ	1		
15:19	ZZZZZZ	1		
15:24	ZZZZZZ	1		
15:28	ZZZZZZ	1		
15:32	ZZZZZZ	1		
15:37	ZZZZZZ	1		
15:41	ZZZZZZ	1		
15:46	MA11004-CCV11	1		
15:50	MA11004-CCB11	1		
15:54	ZZZZZZ	1		
15:59	ZZZZZZ	1		
16:03	ZZZZZZ	1		
16:08	ZZZZZZ	1		
16:12	MP25757-MB2A	1		
16:17	MA11004-CRIA2	1		
16:21	MA11004-ICSA2	1		
16:26	MA11004-ICSAB2	1		
16:30	MA11004-CCV12	1		
16:34	MA11004-CCB12	1		

----------> Last reportable CCB for job FA7621
Refer to raw data for calibration curve and standards.

INTERNAL STANDARD SUMMARY

Login Number: FA7621
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA083013M1.ICP Date Analyzed: 08/30/13 Methods: SW846 6010C
Analyst: LM Run ID: MA11004
Parameters: Na

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
05:33	MA11004-STD1	4939	33724	8936	2090
05:38	MA11004-STD2	4861	33024	8928	1975
05:41	MA11004-STD3	4677	31992	8882	1819
05:45	MA11004-STD4	4486	31067	8789	1685
05:49	MA11004-HSTD1	4480	31170	8797	1686
05:53	MA11004-ICV1	4639	31622	8816	1817
05:59	MA11004-ICB1	4881 R	33124 R	8921 R	2082 R
06:13	MA11004-CRIA1	4828	32410	8780	2006
06:17	MA11004-ICSA1	4320	28882	8466	1579
06:23	MA11004-ICSAB1	4295	29219	8617	1561
06:30	MA11004-CCV1	4661	31901	8787	1809
06:36	MA11004-CCB1	4892	33345	8865	2078
06:40	MP25751-MB1	4831	33070	8732	2039
06:44	MP25751-B1	4658	31685	8642	1865
06:48	FA7654-1	4353	31141	9053	1403
06:53	MP25751-D1	4626	32797	9528	1508
06:58	MP25751-SD1	4708	32297	8942	1864
07:03	MP25751-PS1	4345	30889	8908	1404
07:08	MP25751-S1	4300	30599	8931	1426
07:13	MP25751-S2	4105	30587	8726	999999
07:18	ZZZZZZ	4838	33082	9198	1682
07:22	ZZZZZZ	4577	31653	8945	1578
07:27	MA11004-CCV2	4692	32035	8633	1820
07:31	MA11004-CCB2	4907	33337	8636	2080
07:36	ZZZZZZ	4669	31649	8756	1688
07:40	ZZZZZZ	4883	33277	9399	1567
07:45	ZZZZZZ	4873	33155	9244	1626
07:49	ZZZZZZ	4856	33646	9713	1479
07:54	ZZZZZZ	6449	43578	12349	1538
07:58	ZZZZZZ	4539	31291	8786	1548
08:03	ZZZZZZ	4983	33661	9510	1553
08:08	ZZZZZZ	4742	32178	9126	1528
08:12	ZZZZZZ	4966	33371	9269	1631

INTERNAL STANDARD SUMMARY

Login Number: FA7621
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA083013M1.ICP Date Analyzed: 08/30/13 Methods: SW846 6010C
Analyst: LM Run ID: MA11004
Parameters: Na

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
08:17	ZZZZZZ	4958	33169	9205	1589
08:21	MA11004-CCV3	4678	31705	8546	1821
08:25	MA11004-CCB3	4874	32950	8606	2075
08:30	ZZZZZZ	5213	35279	10075	1463
08:34	ZZZZZZ	4683	32182	9039	1544
08:39	ZZZZZZ	4760	32378	8803	1715
08:44	ZZZZZZ	4979	33979	9677	1481
08:48	ZZZZZZ	4646	31678	9037	1493
08:53	ZZZZZZ	4967	34212	9911	1375
08:58	ZZZZZZ	4768	32568	8869	1697
09:02	ZZZZZZ	4889	32472	8611	1979
09:07	ZZZZZZ	4925	33239	8707	1957
09:11	FA7621-1	4730	32011	8468	1933
09:15	MA11004-CCV4	4624	31486	8468	1794
09:20	MA11004-CCB4	4854	32960	8534	2052
09:24	FA7621-2	4733	32230	8495	1937
09:29	MA11004-CCV5	4620	31685	8451	1790
09:33	MA11004-CCB5	4850	33111	8540	2059
11:06	MA11004-CCV6	4588	31787	8354	1761
11:16	MA11004-CCB6	4850	33330	8413	2031
11:26	MP25755-MB1	4748	32287	8234	1976
11:31	MP25755-B1	4607	31486	8098	1818
11:35	FA7627-1	5726	39260	10438	1659
11:39	MP25755-D1	5590	38403	10167	1667
11:44	MP25755-SD1	5022	34179	8796	1893
11:48	MP25755-PS1	5683	38419	10216	1643
11:53	MP25755-S1	5547	37891	10116	1618
11:57	MP25755-S2	5443	37050	9861	1665
12:02	ZZZZZZ	6072	41428 !	11794 !	1362
12:07	ZZZZZZ	4847	33079	8314	1913
12:11	MA11004-CCV7	4638	31898	8431	1789
12:15	MA11004-CCB7	4838	33239	8479	2040
12:20	ZZZZZZ	4781	32878	8328	1987

INTERNAL STANDARD SUMMARY

Login Number: FA7621
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA083013M1.ICP Date Analyzed: 08/30/13 Methods: SW846 6010C
Analyst: LM Run ID: MA11004
Parameters: Na

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
12:24	ZZZZZZ	4794	33294	8337	1987
12:29	ZZZZZZ	5111	35842	9682	1660
12:33	ZZZZZZ	5288	36870	10085	1599
12:38	ZZZZZZ	5514	37612	9900	1726
12:43	ZZZZZZ	5777	39219	10343	1714
12:47	ZZZZZZ	5726	38988	10283	1718
12:52	ZZZZZZ	5288	36033	9485	1737
12:57	ZZZZZZ	5572	37843	10074	1730
13:01	ZZZZZZ	8757	59623	15803	1762
13:06	MA11004-CCV8	4616	31909	8354	1781
13:10	MA11004-CCB8	4821	33349	8394	2037
13:15	ZZZZZZ	8512	58221	15239	1811
13:19	ZZZZZZ	5753	39184	10377	1733
13:24	ZZZZZZ	10214	69679	18404	1744
13:28	ZZZZZZ	9601	64719	17437	1709
13:33	ZZZZZZ	8725	59487	15702	1763
13:38	ZZZZZZ	5314	36040	9651	1739
13:42	ZZZZZZ	6823	46405	12231	1820
13:47	MP25757-MB1	4887	33777	8546	2079
13:51	MP25757-B1	4677	31996	8512	1869
13:56	FA7672-1	4691	32411	8470	1940
14:00	MA11004-CCV9	4568	31401	8342	1779
14:04	MA11004-CCB9	4795	32816	8456	2035
14:09	MP25757-D1	4691	32422	8510	1945
14:13	MP25757-SD1	4765	32763	8452	2002
14:18	MP25757-PS1	4665	32121	8476	1898
14:22	MP25757-S1	4600	31721	8403	1816
14:26	MP25757-S2	4605	31776	8437	1820
14:30	ZZZZZZ	4516	31448	8378	1836
14:35	ZZZZZZ	4683	32452	8416	1943
14:39	ZZZZZZ	4709	32645	8490	1958
14:44	ZZZZZZ	4721	32983	8536	1972
14:48	ZZZZZZ	4585	31888	8417	1892

INTERNAL STANDARD SUMMARY

Login Number: FA7621
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA083013M1.ICP Date Analyzed: 08/30/13 Methods: SW846 6010C
Analyst: LM Run ID: MA11004
Parameters: Na

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
14:53	MA11004-CCV10	4547	31489	8257	1761
14:57	MA11004-CCB10	4779	32912	8370	2019
15:01	ZZZZZZ	4192	29133	8135	1640
15:06	ZZZZZZ	4673	32443	8463	1937
15:10	ZZZZZZ	4771	32999	8545	1995
15:15	ZZZZZZ	4751	32915	8560	1965
15:19	ZZZZZZ	4732	32650	8602	1967
15:24	ZZZZZZ	4764	32667	8499	2015
15:28	ZZZZZZ	4792	32997	8623	2036
15:32	ZZZZZZ	4800	33134	8725	2044
15:37	ZZZZZZ	4785	32839	8560	2041
15:41	ZZZZZZ	4764	32999	8739	2031
15:46	MA11004-CCV11	4517	31019	8387	1770
15:50	MA11004-CCB11	4762	32387	8462	2039
15:54	ZZZZZZ	4755	32751	8697	2028
15:59	ZZZZZZ	4784	32981	8663	2053
16:03	ZZZZZZ	4766	32627	8556	2031
16:08	ZZZZZZ	4796	32923	8579	2040
16:12	MP25757-MB2A	4799	33086	8558	2056
16:17	MA11004-CRIA2	4705	31832	8385	1975
16:21	MA11004-ICSA2	4201	28245	8103	1549
16:26	MA11004-ICSAB2	4169	28301	8106	1529
16:30	MA11004-CCV12	4512	31000	8383	1770
16:34	MA11004-CCB12	4752	32458	8417	2037

R = Reference for ISTD limits. ! = Outside limits.

LEGEND:

Istd#	Parameter	Limits
Istd#1	Yttrium (2243)	60-125 %
Istd#2	Yttrium (3600)	60-125 %
Istd#3	Yttrium (3710)	60-125 %
Istd#4	Indium	60-125 %

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: FA7621
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA083013M1.ICP Date Analyzed: 08/30/13 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA11004 Units: ug/l

Time: / Sample ID:			05:59 ICB1		06:36 CCB1		07:31 CCB2		08:25 CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	15								
Antimony	6.0	1.3								
Arsenic	10	1.6	anr							
Barium	200	1	anr							
Beryllium	4.0	.5								
Cadmium	5.0	.5	anr							
Calcium	1000	50								
Chromium	10	1.8	anr							
Cobalt	50	.5								
Copper	25	1	anr							
Iron	300	29	anr							
Lead	5.0	1.1	anr							
Magnesium	5000	74								
Manganese	15	.7	anr							
Molybdenum	50	.6								
Nickel	40	.5	anr							
Potassium	10000	200	anr							
Selenium	10	2	anr							
Silver	10	.5	anr							
Sodium	10000	500	17.1	<10000	27.1	<10000	28.4	<10000	24.2	<10000
Strontium	10	.5								
Thallium	10	1.3								
Tin	50	.7								
Titanium	10	.9								
Vanadium	50	.5								
Zinc	20	3	anr							

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: FA7621
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA083013M1.ICP Date Analyzed: 08/30/13 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA11004 Units: ug/l

Time: / Sample ID:			09:20 CCB4		09:33 CCB5		11:16 CCB6		12:15 CCB7	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	15								
Antimony	6.0	1.3								
Arsenic	10	1.6	anr							
Barium	200	1	anr							
Beryllium	4.0	.5								
Cadmium	5.0	.5	anr							
Calcium	1000	50								
Chromium	10	1.8	anr							
Cobalt	50	.5								
Copper	25	1	anr							
Iron	300	29	anr							
Lead	5.0	1.1	anr							
Magnesium	5000	74								
Manganese	15	.7	anr							
Molybdenum	50	.6								
Nickel	40	.5	anr							
Potassium	10000	200	anr							
Selenium	10	2	anr							
Silver	10	.5	anr							
Sodium	10000	500	24.2	<10000	32.5	<10000	16.4	<10000	21.7	<10000
Strontium	10	.5								
Thallium	10	1.3								
Tin	50	.7								
Titanium	10	.9								
Vanadium	50	.5								
Zinc	20	3	anr							

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: FA7621
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA083013M1.ICP Date Analyzed: 08/30/13 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA11004 Units: ug/l

Time: / Sample ID:			13:10 CCB8		14:04 CCB9		14:57 CCB10		15:50 CCB11	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	15								
Antimony	6.0	1.3								
Arsenic	10	1.6	anr							
Barium	200	1	anr							
Beryllium	4.0	.5								
Cadmium	5.0	.5	anr							
Calcium	1000	50								
Chromium	10	1.8	anr							
Cobalt	50	.5								
Copper	25	1	anr							
Iron	300	29	anr							
Lead	5.0	1.1	anr							
Magnesium	5000	74								
Manganese	15	.7	anr							
Molybdenum	50	.6								
Nickel	40	.5	anr							
Potassium	10000	200	anr							
Selenium	10	2	anr							
Silver	10	.5	anr							
Sodium	10000	500	17.8	<10000	7.7	<10000	27.3	<10000	17.3	<10000
Strontium	10	.5								
Thallium	10	1.3								
Tin	50	.7								
Titanium	10	.9								
Vanadium	50	.5								
Zinc	20	3	anr							

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: FA7621
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA083013M1.ICP Date Analyzed: 08/30/13 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA11004 Units: ug/l

Time:			16:34	
Sample ID:			CCB12	
Metal	RL	IDL	raw	final
Aluminum	200	15		
Antimony	6.0	1.3		
Arsenic	10	1.6	anr	
Barium	200	1	anr	
Beryllium	4.0	.5		
Cadmium	5.0	.5	anr	
Calcium	1000	50		
Chromium	10	1.8	anr	
Cobalt	50	.5		
Copper	25	1	anr	
Iron	300	29	anr	
Lead	5.0	1.1	anr	
Magnesium	5000	74		
Manganese	15	.7	anr	
Molybdenum	50	.6		
Nickel	40	.5	anr	
Potassium	10000	200	anr	
Selenium	10	2	anr	
Silver	10	.5	anr	
Sodium	10000	500	19.5	<10000
Strontium	10	.5		
Thallium	10	1.3		
Tin	50	.7		
Titanium	10	.9		
Vanadium	50	.5		
Zinc	20	3	anr	

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA7621
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA083013M1.ICP Date Analyzed: 08/30/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA11004 Units: ug/l

Time:		05:53			06:30			07:27	
Sample ID:	ICV	ICV1		CCV	CCV1		CCV	CCV2	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum									
Antimony									
Arsenic	anr								
Barium	anr								
Beryllium									
Cadmium	anr								
Calcium									
Chromium	anr								
Cobalt									
Copper	anr								
Iron	anr								
Lead	anr								
Magnesium									
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium	anr								
Selenium	anr								
Silver	anr								
Sodium	40000	40800	102.0	40000	40300	100.8	40000	40300	100.8
Strontium									
Thallium									
Tin									
Titanium									
Vanadium									
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA7621
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA083013M1.ICP Date Analyzed: 08/30/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA11004 Units: ug/l

Time:		08:21			09:15			09:29	
Sample ID:	CCV	CCV3		CCV	CCV4		CCV	CCV5	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum									
Antimony									
Arsenic	anr								
Barium	anr								
Beryllium									
Cadmium	anr								
Calcium									
Chromium	anr								
Cobalt									
Copper	anr								
Iron	anr								
Lead	anr								
Magnesium									
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium	anr								
Selenium	anr								
Silver	anr								
Sodium	40000	40400	101.0	40000	40300	100.8	40000	40300	100.8
Strontium									
Thallium									
Tin									
Titanium									
Vanadium									
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA7621
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA083013M1.ICP Date Analyzed: 08/30/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA11004 Units: ug/l

Time:		11:06			12:11			13:06	
Sample ID:	CCV	CCV6		CCV	CCV7		CCV	CCV8	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum									
Antimony									
Arsenic	anr								
Barium	anr								
Beryllium									
Cadmium	anr								
Calcium									
Chromium	anr								
Cobalt									
Copper	anr								
Iron	anr								
Lead	anr								
Magnesium									
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium	anr								
Selenium	anr								
Silver	anr								
Sodium	40000	41100	102.8	40000	40400	101.0	40000	40800	102.0
Strontium									
Thallium									
Tin									
Titanium									
Vanadium									
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA7621
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA083013M1.ICP Date Analyzed: 08/30/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA11004 Units: ug/l

Time:		14:00			14:53			15:46	
Sample ID:	CCV	CCV9		CCV	CCV10		CCV	CCV11	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum									
Antimony									
Arsenic	anr								
Barium	anr								
Beryllium									
Cadmium	anr								
Calcium									
Chromium	anr								
Cobalt									
Copper	anr								
Iron	anr								
Lead	anr								
Magnesium									
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium	anr								
Selenium	anr								
Silver	anr								
Sodium	40000	40700	101.8	40000	40800	102.0	40000	40500	101.3
Strontium									
Thallium									
Tin									
Titanium									
Vanadium									
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA7621
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA083013M1.ICP Date Analyzed: 08/30/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA11004 Units: ug/l

Time:		16:30	
Sample ID:	CCV	CCV12	
Metal	True	Results	% Rec
Aluminum			
Antimony			
Arsenic	anr		
Barium	anr		
Beryllium			
Cadmium	anr		
Calcium			
Chromium	anr		
Cobalt			
Copper	anr		
Iron	anr		
Lead	anr		
Magnesium			
Manganese	anr		
Molybdenum			
Nickel	anr		
Potassium	anr		
Selenium	anr		
Silver	anr		
Sodium	40000	40500	101.3
Strontium			
Thallium			
Tin			
Titanium			
Vanadium			
Zinc	anr		

(*) Outside of QC limits
(anr) Analyte not requested

HIGH STANDARD CHECK SUMMARY

Login Number: FA7621
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA083013M1.ICP Date Analyzed: 08/30/13 Methods: SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA11004 Units: ug/l

Time:		05:49	
Sample ID:	HSTD	HSTD1	
Metal	True	Results	% Rec
Aluminum			
Antimony			
Arsenic	anr		
Barium	anr		
Beryllium			
Cadmium	anr		
Calcium			
Chromium	anr		
Cobalt			
Copper	anr		
Iron	anr		
Lead	anr		
Magnesium			
Manganese	anr		
Molybdenum			
Nickel	anr		
Potassium	anr		
Selenium	anr		
Silver	anr		
Sodium	80000	80000	100.0
Strontium			
Thallium			
Tin			
Titanium			
Vanadium			
Zinc	anr		

(*) Outside of QC limits
(anr) Analyte not requested

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: FA7621
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA083013M1.ICP Date Analyzed: 08/30/13 Methods: SW846 6010C
QC Limits: CRI 70-130% CRIA 70-130% Run ID: MA11004 Units: ug/l

Time:			06:13		16:17	
Sample ID:	CRI	CRIA	CRIA1		CRIA2	
Metal	True	True	Results	% Rec	Results	% Rec
Aluminum	400	200				
Antimony	10	5.0				
Arsenic	20	10	anr			
Barium	400	200	anr			
Beryllium	10	5.0				
Cadmium	10	5.0	anr			
Calcium	2000	1000				
Chromium	20	10	anr			
Cobalt	100	50				
Copper	50	25	anr			
Iron	600	300	anr			
Lead	10	5.0	anr			
Magnesium	10000	5000				
Manganese	30	15	anr			
Molybdenum	100	50				
Nickel	80	40	anr			
Potassium	20000	10000	anr			
Selenium	20	10	anr			
Silver	20	10	anr			
Sodium	20000	10000	9900	99.0	10100	101.0
Strontium	20	10				
Thallium	20	10				
Tin	100	50				
Titanium	20	10				
Vanadium	100	50				
Zinc	40	20	anr			

(*) Outside of QC limits
(anr) Analyte not requested

INTERFERING ELEMENT CHECK STANDARDS SUMMARY
Part 1 - ICSA and ICSAB Standards

Login Number: FA7621
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA083013M1.ICP Date Analyzed: 08/30/13 Methods: SW846 6010C
QC Limits: 80 to 120 % Recovery Run ID: MA11004 Units: ug/l

Time:			06:17		06:23		16:21		16:26	
Sample ID:	ICSA	ICSAB	ICSA1		ICSAB1		ICSA2		ICSAB2	
Metal	True	True	Results	% Rec	Results	% Rec	Results	% Rec	Results	% Rec
Aluminum	500000	500000	494000	98.8	490000	98.0	502000	100.4	499000	99.8
Antimony		1000	1.9		1020	102.0	0.50		1050	105.0
Arsenic		1000	-1.2		1020	102.0	-4.0		1040	104.0
Barium		500	0.10		522	104.4	0.10		531	106.2
Beryllium		500	-0.20		487	97.4	-0.10		479	95.8
Cadmium		1000	-0.10		917	91.7	1.0		937	93.7
Calcium	500000	500000	470000	94.0	473000	94.6	471000	94.2	470000	94.0
Chromium		500	0.0		465	93.0	0.20		472	94.4
Cobalt		500	1.2		463	92.6	1.4		469	93.8
Copper		500	-0.20		515	103.0	-0.70		523	104.6
Iron	200000	200000	185000	92.5	184000	92.0	182000	91.0	182000	91.0
Lead		1000	-0.30		955	95.5	0.80		965	96.5
Magnesium	500000	500000	489000	97.8	491000	98.2	478000	95.6	479000	95.8
Manganese		500	-0.40		491	98.2	-0.40		498	99.6
Molybdenum		1000	0.10		951	95.1	-0.50		963	96.3
Nickel		1000	0.30		913	91.3	0.10		931	93.1
Potassium			65.4		114		93.1		81.3	
Selenium		1000	0.20		994	99.4	-1.4		1020	102.0
Silver		1000	0.80		1030	103.0	0.50		1040	104.0
Sodium			157		205		101		105	
Strontium		1000	12.0		1020	102.0	12.3		1030	103.0
Thallium		1000	0.10		974	97.4	-0.30		982	98.2
Tin		1000	2.4		939	93.9	2.2		952	95.2
Titanium		1000	-3.6		962	96.2	-3.7		982	98.2
Vanadium		500	0.30		475	95.0	-0.10		483	96.6
Zinc		1000	-0.20		929	92.9	0.40		935	93.5

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: FA7621
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

QC Batch ID: MP25747
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date:				08/29/13		08/29/13	
Metal	RL	IDL	MDL	MB raw	final	MB raw	final
Aluminum	200	15	15	4.2	<200	8.0	<200
Antimony	6.0	1.3	1.3	-0.30	<6.0	0.10	<6.0
Arsenic	10	1.6	2.5	0.20	<10	0.10	<10
Barium	200	1	1				
Beryllium	4.0	.5	.5				
Cadmium	5.0	.5	.5	-0.10	<5.0	-0.20	<5.0
Calcium	1000	50	50	5.3	<1000	9.2	<1000
Chromium	10	1.8	2	-0.10	<10	-0.20	<10
Cobalt	50	.5	.5				
Copper	25	1	1				
Iron	300	29	29	-3.4	<300	-3.1	<300
Lead	5.0	1.1	1.1				
Magnesium	5000	74	74	4.6	<5000	-0.10	<5000
Manganese	15	.7	.7				
Molybdenum	50	.6	1				
Nickel	40	.5	.5				
Potassium	10000	200	200	-35	<10000	-38	<10000
Selenium	10	2	2	-0.40	<10	-0.90	<10
Silver	10	.5	.5				
Sodium	10000	500	500	-29	<10000	1.7	<10000
Strontium	10	.5	.5				
Thallium	10	1.3	1.3				
Tin	50	.7	1.8				
Titanium	10	.9	1				
Vanadium	50	.5	1				
Zinc	20	3	5				

Associated samples MP25747: FA7621-1, FA7621-2, FA7621-3

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FA7621
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

QC Batch ID: MP25747
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date:			08/29/13					08/29/13	
Metal	FA7617-1 Original	DUP	RPD	QC Limits	FA7617-1 Original	MS	Spikelot MPFLICP2	% Rec	QC Limits
Aluminum	18.0	15.5	14.9	0-20	18.0	27100	27000	100.3	80-120
Antimony	0.0	0.0	NC	0-20	0.0	503	500	100.6	80-120
Arsenic	0.0	0.0	NC	0-20	0.0	1990	2000	99.5	80-120
Barium									
Beryllium									
Cadmium	0.0	0.0	NC	0-20	0.0	49.7	50	99.4	80-120
Calcium	37400	36400	2.7	0-20	37400	60300	25000	91.6	80-120
Chromium	0.0	0.0	NC	0-20	0.0	207	200	103.5	80-120
Cobalt									
Copper									
Iron	0.0	0.0	NC	0-20	0.0	26500	26000	101.9	80-120
Lead									
Magnesium	17900	17400	2.8	0-20	17900	41300	25000	93.6	80-120
Manganese									
Molybdenum									
Nickel									
Potassium	9390	9140	2.7	0-20	9390	34700	25000	101.2	80-120
Selenium	0.0	0.0	NC	0-20	0.0	1970	2000	98.5	80-120
Silver									
Sodium	9790	9510	2.9	0-20	9790	35000	25000	100.8	80-120
Strontium									
Thallium									
Tin									
Titanium									
Vanadium									
Zinc									

Associated samples MP25747: FA7621-1, FA7621-2, FA7621-3

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FA7621
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

QC Batch ID: MP25747
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 08/29/13

Metal	FA7617-1 Original	MSD	Spikelot MPFLICP2	% Rec	MSD RPD	QC Limit
Aluminum	18.0	26700	27000	98.8	1.5	20
Antimony	0.0	498	500	99.6	1.0	20
Arsenic	0.0	1960	2000	98.0	1.5	20
Barium						
Beryllium						
Cadmium	0.0	48.8	50	97.6	1.8	20
Calcium	37400	62100	25000	98.8	2.9	20
Chromium	0.0	204	200	102.0	1.5	20
Cobalt						
Copper						
Iron	0.0	26100	26000	100.4	1.5	20
Lead						
Magnesium	17900	42100	25000	96.8	1.9	20
Manganese						
Molybdenum						
Nickel						
Potassium	9390	34900	25000	102.0	0.6	20
Selenium	0.0	1940	2000	97.0	1.5	20
Silver						
Sodium	9790	35200	25000	101.6	0.6	20
Strontium						
Thallium						
Tin						
Titanium						
Vanadium						
Zinc						

Associated samples MP25747: FA7621-1, FA7621-2, FA7621-3

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: FA7621
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

QC Batch ID: MP25747
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 08/29/13

Metal	BSP Result	Spikelot MPFLICP2	% Rec	QC Limits
Aluminum	27100	27000	100.4	80-120
Antimony	493	500	98.6	80-120
Arsenic	1960	2000	98.0	80-120
Barium				
Beryllium				
Cadmium	49.8	50	99.6	80-120
Calcium	25200	25000	100.8	80-120
Chromium	206	200	103.0	80-120
Cobalt				
Copper				
Iron	26800	26000	103.1	80-120
Lead				
Magnesium	24100	25000	96.4	80-120
Manganese				
Molybdenum				
Nickel				
Potassium	25700	25000	102.8	80-120
Selenium	1950	2000	97.5	80-120
Silver				
Sodium	25400	25000	101.6	80-120
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc				

Associated samples MP25747: FA7621-1, FA7621-2, FA7621-3

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: FA7621
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

QC Batch ID: MP25747
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 08/29/13

Metal	FA7617-1 Original	SDL 1:5	%DIF	QC Limits
Aluminum	18.0	0.00	100.0(a)	0-10
Antimony	0.00	0.00	NC	0-10
Arsenic	0.00	0.00	NC	0-10
Barium				
Beryllium				
Cadmium	0.00	0.00	NC	0-10
Calcium	37400	36800	1.6	0-10
Chromium	0.00	0.00	NC	0-10
Cobalt				
Copper				
Iron	0.00	0.00	NC	0-10
Lead				
Magnesium	17900	17600	2.1	0-10
Manganese				
Molybdenum				
Nickel				
Potassium	9390	8700	7.4	0-10
Selenium	0.00	0.00	NC	0-10
Silver				
Sodium	9790	9170	6.3	0-10
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc				

Associated samples MP25747: FA7621-1, FA7621-2, FA7621-3

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

POST DIGESTATE SPIKE SUMMARY

Login Number: FA7621
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

QC Batch ID: MP25747
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 08/29/13

Metal	Sample ml	Final ml	FA7617-1 Raw	Corr.**	PS ug/l	Spike ml	Spike ug/ml	Spike ug/l	% Rec	QC Limits
Aluminum	9.8	10	18	17.64	2513	0.2	125	2500	99.8	80-120
Antimony	9.8	10			103.3	0.2	5	100	103.3	80-120
Arsenic	9.8	10			103.8	0.2	5	100	103.8	80-120
Barium										
Beryllium										
Cadmium	9.8	10			52.3	0.2	2.5	50	104.6	80-120
Calcium	9.8	10	37400	36652	41930	0.2	250	5000	105.6	80-120
Chromium	9.8	10			53	0.2	2.5	50	106.0	80-120
Cobalt										
Copper										
Iron	9.8	10			3008	0.2	150	3000	100.3	80-120
Lead										
Magnesium	9.8	10	17940	17581.2	22380	0.2	250	5000	96.0	80-120
Manganese										
Molybdenum										
Nickel										
Potassium	9.8	10	9394	9206.12	19240	0.2	500	10000	100.3	80-120
Selenium	9.8	10			99.5	0.2	5	100	99.5	80-120
Silver										
Sodium	9.8	10	9787	9591.26	20100	0.2	500	10000	105.1	80-120
Strontium										
Thallium										
Tin										
Titanium										
Vanadium										
Zinc										

Associated samples MP25747: FA7621-1, FA7621-2, FA7621-3

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(**) Corr. sample result = Raw * (sample volume / final volume)
(anr) Analyte not requested

Southeast ACCUTEST LABORATORIES

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries
- Instrument Runlogs/QC

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: FA7621
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Alkalinity, Total as CaCO3	GN57564	5.0	1.0	mg/l	250	254	102.0	90-113%
Alkalinity, Total as CaCO3	GN57634	25	0.0	mg/l	250	260	104.0	90-113%
Chloride	GP22372/GN57445	2.0	0.0	mg/l	50	51.1	102.2	90-110%
Fluoride	GP22376/GN57467	0.20	0.0	mg/l	2.5	2.47	98.8	90-110%
Nitrogen, Nitrate	GP22372/GN57445	0.10	0.0	mg/l	2.5	2.62	104.8	90-110%
Phosphate, Ortho	GP22385/GN57476	0.10	0.0	mg/l	0.3	0.29	95.0	83-116%
Phosphorus, Total	GP22398/GN57518	0.10	0.0	mg/l	.300mg/l	0.30	100.2	81-118%
Solids, Total Dissolved	GN57475	100	15.0	mg/l				
Sulfate	GP22372/GN57445	2.0	0.0	mg/l	50	50.9	101.8	90-110%

Associated Samples:
Batch GN57475: FA7621-1, FA7621-2, FA7621-3
Batch GN57564: FA7621-3
Batch GN57634: FA7621-1, FA7621-2
Batch GP22372: FA7621-1, FA7621-2, FA7621-3
Batch GP22376: FA7621-1, FA7621-2, FA7621-3
Batch GP22385: FA7621-1F, FA7621-2F, FA7621-3F
Batch GP22398: FA7621-1, FA7621-2, FA7621-3
(*) Outside of QC limits

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: FA7621
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Alkalinity, Total as CaCO3	GN57564	FA7717-3	mg/l	61.0	60.5	0.8	0-20%
Alkalinity, Total as CaCO3	GN57634	FA7621-1	mg/l	938	935	0.1	0-20%
Alkalinity, Total as CaCO3	GN57634	FA7621-2	mg/l	675	675	0.1	0-20%
Solids, Total Dissolved	GN57475	FA7660-5	mg/l	345	345	0.0	0-5%
Specific Conductivity	GN57443	FA7621-1	umhos/cm	4420	4430	0.1	0-10%
pH	GN57442	FA7621-1	su	6.34	6.34	0.0	0-10%

Associated Samples:
Batch GN57442: FA7621-1, FA7621-2, FA7621-3
Batch GN57443: FA7621-1, FA7621-2, FA7621-3
Batch GN57475: FA7621-1, FA7621-2, FA7621-3
Batch GN57564: FA7621-3
Batch GN57634: FA7621-1, FA7621-2
(*) Outside of QC limits

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: FA7621
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Chloride	GP22372/GN57445	FA7617-1	mg/l	6.0	50	54.7	97.4	90-110%
Fluoride	GP22376/GN57467	FA7464-6	mg/l	0.36	2.5	3.3	117.6N(a)	90-110%
Nitrogen, Nitrate	GP22372/GN57445	FA7617-1	mg/l	0.37	2.5	2.9	101.2	90-110%
Phosphate, Ortho	GP22385/GN57476	FA7621-1F	mg/l	42.9	60	100	95.0	83-116%
Phosphorus, Total	GP22398/GN57518	FA7668-5	mg/l	0.30	.300	0.56	88.6	81-118%
Sulfate	GP22372/GN57445	FA7617-1	mg/l	31.5	50	79.6	96.2	90-110%

Associated Samples:
Batch GP22372: FA7621-1, FA7621-2, FA7621-3
Batch GP22376: FA7621-1, FA7621-2, FA7621-3
Batch GP22385: FA7621-1F, FA7621-2F, FA7621-3F
Batch GP22398: FA7621-1, FA7621-2, FA7621-3
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(a) Spike recovery indicates possible matrix interference.

MATRIX SPIKE DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: FA7621
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MSD Result	RPD	QC Limit
Chloride	GP22372/GN57445	FA7617-1	mg/l	6.0	50	54.3	0.7	20%
Fluoride	GP22376/GN57467	FA7464-6	mg/l	0.36	2.5	3.3	0.0	20%
Nitrogen, Nitrate	GP22372/GN57445	FA7617-1	mg/l	0.37	2.5	2.9	0.0	20%
Phosphate, Ortho	GP22385/GN57476	FA7621-1F	mg/l	42.9	60	100	0.7	26%
Phosphorus, Total	GP22398/GN57518	FA7668-5	mg/l	0.30	.300	0.588	4.5	22%
Sulfate	GP22372/GN57445	FA7617-1	mg/l	31.5	50	78.9	0.9	20%

Associated Samples:
Batch GP22372: FA7621-1, FA7621-2, FA7621-3
Batch GP22376: FA7621-1, FA7621-2, FA7621-3
Batch GP22385: FA7621-1F, FA7621-2F, FA7621-3F
Batch GP22398: FA7621-1, FA7621-2, FA7621-3
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA7621
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: 313280801.TXT Date Analyzed: 08/28/13 Methods: EPA 300/SW846 9056A
Analyst: AA Run ID: GN57445
Parameters: Chloride,Nitrogen, Nitrate,Sulfate

Time	Sample Description	Dilution Factor	PS Recov	Comments
09:04	GN57445-CCV1	1		
09:19	GP22372-MB1	1		
09:35	GP22372-B1	1		
10:23	FA7617-1	1		(sample used for QC only; not part of login FA7621)
10:39	ZZZZZZ	5		
11:00	FA7621-1	25		
11:16	FA7621-2	25		
11:31	FA7621-3	10		
11:47	ZZZZZZ	1		
12:03	GN57445-CCV2	1		
12:19	GN57445-CCB1	1		
12:35	ZZZZZZ	1		
12:51	ZZZZZZ	1		
13:07	ZZZZZZ	1		
13:23	FA7617-7	1		(sample used for QC only; not part of login FA7621)
13:39	ZZZZZZ	1		
13:55	ZZZZZZ	500		
14:11	ZZZZZZ	500		
14:27	ZZZZZZ	500		
14:43	ZZZZZZ	500		
14:58	ZZZZZZ	1		
15:14	GN57445-CCV3	1		
15:30	GN57445-CCB2	1		
15:46	ZZZZZZ	1		
16:02	ZZZZZZ	5		
16:18	ZZZZZZ	5		
16:34	ZZZZZZ	10		
16:50	GP22372-S1	1		
17:06	GP22372-S2	1		
17:22	GP22372-S3	1		
17:38	GP22372-S4	1		
17:54	FA7621-3	25		
18:09	ZZZZZZ	2		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA7621
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: 313280801.TXT Date Analyzed: 08/28/13 Methods: EPA 300/SW846 9056A
Analyst: AA Run ID: GN57445
Parameters: Chloride,Nitrogen, Nitrate,Sulfate

Time	Sample Description	Dilution Factor	PS Recov	Comments
18:25	GN57445-CCV4	1		
18:41	GP22373-MB1	1		
18:57	GP22373-B1	1		
19:13	ZZZZZZ	10		
19:29	ZZZZZZ	5		
19:45	ZZZZZZ	10		
20:01	ZZZZZZ	1		
20:17	FA7533-12	1		(sample used for QC only; not part of login FA7621)
20:33	GP22373-S1	1		
20:49	GP22373-S2	1		
21:05	ZZZZZZ	2		
21:20	GN57445-CCV5	1		
21:36	GN57445-CCB3	1		

Refer to raw data for calibration curve and standards.

Instrument QC Summary
Inorganics Analyses

Login Number: FA7621
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: 313280801.TXT Date Analyzed: 08/28/13 Methods: EPA 300/SW846 9056A
Run ID: GN57445 Units: mg/l

Sample Number	Parameter	Result	RL	IDL/MDL	True Value	% Recov.	QC Limits
GN57445-CCV1	Chloride	50.1	2.0	0.80	50	100.2	90-110
GN57445-CCV1	Nitrogen, Nitrate	2.6	0.10	0.050	2.5	104.0	90-110
GN57445-CCV1	Sulfate	50.3	2.0	0.60	50	100.6	90-110
GN57445-CCV2	Chloride	50.2	2.0	0.80	50	100.4	90-110
GN57445-CCV2	Nitrogen, Nitrate	2.6	0.10	0.050	2.5	104.0	90-110
GN57445-CCV2	Sulfate	50.0	2.0	0.60	50	100.0	90-110
GN57445-CCB1	Chloride	0.80 U	2.0	0.80			
GN57445-CCB1	Nitrogen, Nitrate	0.050 U	0.10	0.050			
GN57445-CCB1	Sulfate	0.60 U	2.0	0.60			
GN57445-CCV3	Chloride	50.2	2.0	0.80	50	100.4	90-110
GN57445-CCV3	Nitrogen, Nitrate	2.6	0.10	0.050	2.5	104.0	90-110
GN57445-CCV3	Sulfate	50.0	2.0	0.60	50	100.0	90-110
GN57445-CCB2	Chloride	0.80 U	2.0	0.80			
GN57445-CCB2	Nitrogen, Nitrate	0.050 U	0.10	0.050			
GN57445-CCB2	Sulfate	0.60 U	2.0	0.60			
GN57445-CCV4	Chloride	50.2	2.0	0.80	50	100.4	90-110
GN57445-CCV4	Nitrogen, Nitrate	2.6	0.10	0.050	2.5	104.0	90-110
GN57445-CCV4	Sulfate	50.2	2.0	0.60	50	100.4	90-110
GN57445-CCV5	Chloride	50.2	2.0	0.80	50	100.4	90-110
GN57445-CCV5	Nitrogen, Nitrate	2.6	0.10	0.050	2.5	104.0	90-110
GN57445-CCV5	Sulfate	50.2	2.0	0.60	50	100.4	90-110
GN57445-CCB3	Chloride	0.80 U	2.0	0.80			
GN57445-CCB3	Nitrogen, Nitrate	0.050 U	0.10	0.050			
GN57445-CCB3	Sulfate	0.60 U	2.0	0.60			

(!) Outside of QC limits

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA7621
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: 213290801.TXT Date Analyzed: 08/29/13 Methods: EPA 300/SW846 9056A
Analyst: AA Run ID: GN57467
Parameters: Fluoride

Time	Sample Description	Dilution Factor	PS Recov	Comments
10:03	GN57467-CCV1	1		
10:19	GP22376-MB1	1		
10:36	GP22376-B1	1		
10:53	FA7464-6	2		(sample used for QC only; not part of login FA7621)
11:10	FA7621-1	25		
11:27	FA7621-2	25		
11:44	FA7621-3	10		
12:01	ZZZZZZ	2000		
12:18	GP22376-S1	2		
12:35	GP22376-S2	2		
12:52	GN57467-CCV2	1		
13:09	GP22371-MB1	1		
13:25	GP22371-B1	1		
13:42	FA7577-1	5		(sample used for QC only; not part of login FA7621)
13:59	GP22371-S1	5		
14:16	GP22371-S2	5		
15:01	GN57467-CCV3	1		
15:17	GN57467-CCB1	1		

Refer to raw data for calibration curve and standards.

Instrument QC Summary
Inorganics Analyses

Login Number: FA7621
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: 213290801.TXT Date Analyzed: 08/29/13 Methods: EPA 300/SW846 9056A
Run ID: GN57467 Units: mg/l

Sample Number	Parameter	Result	RL	IDL/MDL	True Value	% Recov.	QC Limits
GN57467-CCV1	Fluoride	2.6	0.20	0.060	2.5	104.0	90-110
GN57467-CCV2	Fluoride	2.7	0.20	0.060	2.5	108.0	90-110
GN57467-CCV3	Fluoride	2.7	0.20	0.060	2.5	108.0	90-110
GN57467-CCB1	Fluoride	0.060 U	0.20	0.060			

(!) Outside of QC limits

Southeast
ACCUTEST LABORATORIES

09/12/13

Technical Report for

WSP Environment & Energy

Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID 36785.01

Accutest Job Number: FA7717

Sampling Date: 08/28/13

Report to:

WSP Environment & Energy
205 West Park Street
Jackson, MO 63755
tim.huff@wspgroup.com

ATTN: Tim Huff

Total number of pages in report: **80**

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Harry Behzadi, Ph.D.
Laboratory Director

Client Service contact: Andrea Colby 407-425-6700

Certifications: FL (E83510), LA (03051), KS (E-10327), IA (366), IL (200063), NC (573), NJ (FL002), SC (96038001) DoD ELAP (L-A-B L2229), CA (04226CA), TX (T104704404), AK, AR, GA, KY, MA, NV, OK, UT, VA, WA, WI

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Sample Summary

WSP Environment & Energy

Job No: FA7717

Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID
Project No: 36785.01

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA7717-1	08/28/13	11:50	TP	08/30/13	AQ	Ground Water	A-35-080
FA7717-1F	08/28/13	11:50	TP	08/30/13	AQ	Groundwater Filtered	A-35-080
FA7717-2	08/28/13	12:30	TP	08/30/13	AQ	Ground Water	DUP 08282013
FA7717-2F	08/28/13	12:30	TP	08/30/13	AQ	Groundwater Filtered	DUP 08282013
FA7717-3	08/28/13	13:35	TP	08/30/13	AQ	Ground Water	A-36-105
FA7717-3F	08/28/13	13:35	TP	08/30/13	AQ	Groundwater Filtered	A-36-105
FA7717-4	08/28/13	15:10	TP	08/30/13	AQ	Ground Water	A-36-145
FA7717-4F	08/28/13	15:10	TP	08/30/13	AQ	Groundwater Filtered	A-36-145

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: WSP Environment & Energy **Job No:** FA7717

Site: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID **Report Date:** 9/11/2013 9:06:24 PM

4 Sample(s) were collected on 08/28/2013 and were received at Accutest SE on 08/30/2013 properly preserved, at 3.2 Deg. C and intact. These Samples received an Accutest job number of FA7717. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Metals By Method SW846 6010C

Matrix: AQ **Batch ID:** MP25796

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA7918-1DUP, FA7918-1MS, FA7918-1MSD, FA7918-1PS, FA7918-1SDL were used as the QC samples for metals.

RPD(s) for Duplicate for Aluminum are outside control limits for sample MP25796-D1. RPD acceptable due to low duplicate and sample concentrations.

RPD(s) for Serial Dilution for Aluminum, Potassium are outside control limits for sample MP25796-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

MP25796-PS1 for Calcium: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

FA7717-4 for Cadmium: Elevated reporting limit(s) due to matrix interference.

FA7717-4 for Selenium: Elevated reporting limit(s) due to matrix interference.

FA7717-4 for Antimony: Elevated reporting limit(s) due to matrix interference.

FA7717-4 for Chromium: Elevated reporting limit(s) due to matrix interference.

Wet Chemistry By Method EPA 120.1

Matrix: AQ **Batch ID:** GN57496

All method blanks for this batch meet method specific criteria.

Sample(s) FA7717-1DUP were used as the QC samples for Specific Conductivity.

The following samples were run outside of holding time for method EPA 120.1: FA7717-1, FA7717-2, FA7717-3, FA7717-4. Sample received outside the holding time.

Wet Chemistry By Method EPA 300/SW846 9056A

Matrix: AQ **Batch ID:** GP22396

All samples were prepped within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA7705-2MS, FA7705-2MSD were used as the QC samples for Chloride, Nitrogen, Nitrate, Sulfate.

FA7717-4 for Nitrogen, Nitrate: Dilution required due to matrix interference.

Matrix: AQ **Batch ID:** GP22429

All samples were prepped within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA7717-2MS, FA7717-2MSD were used as the QC samples for Fluoride.

Matrix Spike Duplicate Recovery(s) for Fluoride are outside control limits. Probable cause is due to matrix interference. For method performance in a clean matrix, refer to Blank Spike.

Wet Chemistry By Method EPA 300/SW846 9056A

Matrix: AQ **Batch ID:** GP22429

FA7717-1 for Fluoride: Dilution required due to matrix interference.

FA7717-2 for Fluoride: Dilution required due to matrix interference.

FA7717-4 for Fluoride: Dilution required due to matrix interference.

Wet Chemistry By Method EPA 365.3

Matrix: AQ **Batch ID:** GP22405

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA7717-4FMSD, FA7717-4FMS were used as the QC samples for Phosphate, Ortho.

Matrix Spike Recovery(s) for Phosphate, Ortho are outside control limits. Spike recovery indicates possible matrix interference. For method performance in a clean matrix, refer to Blank Spike.

Matrix: AQ **Batch ID:** GP22407

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA7668-8MS, FA7668-8MSD were used as the QC samples for Phosphorus, Total.

Matrix: AQ **Batch ID:** GP22431

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA7856-5MS, FA7856-5MSD were used as the QC samples for Phosphorus, Total.

Wet Chemistry By Method SM 4500H B/SW 9040C

Matrix: AQ **Batch ID:** GN57497

Sample(s) FA7718-5DUP were used as the QC samples for pH.

FA7717-1 for pH: Field analysis required. Received out of hold time and analyzed by request.

FA7717-2 for pH: Field analysis required. Received out of hold time and analyzed by request.

FA7717-3 for pH: Field analysis required. Received out of hold time and analyzed by request.

FA7717-4 for pH: Field analysis required. Received out of hold time and analyzed by request.

Wet Chemistry By Method SM19 2320B

Matrix: AQ **Batch ID:** GN57564

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA7717-3DUP were used as the QC samples for Alkalinity, Total as CaCO3.

Matrix: AQ **Batch ID:** GN57634

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA7621-1DUP were used as the QC samples for Alkalinity, Total as CaCO3.

Wet Chemistry By Method SM19 2540C

Matrix: AQ **Batch ID:** GN57475

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA7660-5DUP were used as the QC samples for Solids, Total Dissolved.

Matrix: AQ **Batch ID:** GN57508

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA7725-7DUP were used as the QC samples for Solids, Total Dissolved.

Accutest Laboratories Southeast (ALSE) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALSE and as stated on the COC. ALSE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the ALSE Quality Manual except as noted above. This report is to be used in its entirety. ALSE is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

_____

Kim Benham, Client Services (signature on file)

Date: September 11, 2013

Summary of Hits

Job Number: FA7717
Account: WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID
Collected: 08/28/13

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA7717-1	**A-35-080**					
Aluminum		0.837	0.20	0.015	mg/l	SW846 6010C
Arsenic		0.0143	0.010	0.0025	mg/l	SW846 6010C
Cadmium		0.0016 J	0.0050	0.00050	mg/l	SW846 6010C
Calcium		435	1.0	0.050	mg/l	SW846 6010C
Chromium		0.0023 J	0.010	0.0020	mg/l	SW846 6010C
Iron		1.22	0.30	0.029	mg/l	SW846 6010C
Magnesium		281	5.0	0.074	mg/l	SW846 6010C
Potassium		46.0	10	0.20	mg/l	SW846 6010C
Selenium		0.0024 J	0.010	0.0020	mg/l	SW846 6010C
Sodium		216	40	2.0	mg/l	SW846 6010C
Alkalinity, Bicarbonate as CaCO3		788	5.0	5.0	mg/l	SM18 4500CO2D
Alkalinity, Total as CaCO3		788	25	3.0	mg/l	SM19 2320B
Chloride		164	50	20	mg/l	EPA 300/SW846 9056A
Nitrogen, Nitrate		64.2	2.5	1.3	mg/l	EPA 300/SW846 9056A
Phosphorus, Total		72.4	25	13	mg/l	EPA 365.3
Solids, Total Dissolved		3830	500	50	mg/l	SM19 2540C
Specific Conductivity [a]		5500	1.0	1.0	umhos/cm	EPA 120.1
Sulfate		2150	50	15	mg/l	EPA 300/SW846 9056A
pH [b]		6.08			su	SM 4500H B/SW 9040C
FA7717-1F	**A-35-080**					
Phosphate, Ortho		25.9	10	1.9	mg/l	EPA 365.3
FA7717-2	**DUP 08282013**					
Aluminum		0.429	0.20	0.015	mg/l	SW846 6010C
Arsenic		0.0150	0.010	0.0025	mg/l	SW846 6010C
Cadmium		0.0016 J	0.0050	0.00050	mg/l	SW846 6010C
Calcium		450	1.0	0.050	mg/l	SW846 6010C
Chromium		0.0022 J	0.010	0.0020	mg/l	SW846 6010C
Iron		1.24	0.30	0.029	mg/l	SW846 6010C
Magnesium		294	5.0	0.074	mg/l	SW846 6010C
Potassium		47.7	10	0.20	mg/l	SW846 6010C
Sodium		218	50	2.5	mg/l	SW846 6010C
Alkalinity, Bicarbonate as CaCO3		743	5.0	5.0	mg/l	SM18 4500CO2D
Alkalinity, Total as CaCO3		743	25	3.0	mg/l	SM19 2320B
Chloride		156	50	20	mg/l	EPA 300/SW846 9056A
Nitrogen, Nitrate		64.9	2.5	1.3	mg/l	EPA 300/SW846 9056A
Phosphorus, Total		69.7	25	13	mg/l	EPA 365.3
Solids, Total Dissolved		3820	500	50	mg/l	SM19 2540C
Specific Conductivity [a]		5400	1.0	1.0	umhos/cm	EPA 120.1
Sulfate		2150	50	15	mg/l	EPA 300/SW846 9056A

Summary of Hits

Job Number: FA7717
Account: WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID
Collected: 08/28/13

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
pH [b]		6.49			su	SM 4500H B/SW 9040C
FA7717-2F	**DUP 08282013**					
Phosphate, Ortho		27.2	10	1.9	mg/l	EPA 365.3
FA7717-3	**A-36-105**					
Aluminum		11.4	0.20	0.015	mg/l	SW846 6010C
Arsenic		0.0033 J	0.010	0.0025	mg/l	SW846 6010C
Cadmium		0.0844	0.0050	0.00050	mg/l	SW846 6010C
Calcium		303	1.0	0.050	mg/l	SW846 6010C
Chromium		0.0046 J	0.010	0.0020	mg/l	SW846 6010C
Iron		4.51	0.30	0.029	mg/l	SW846 6010C
Magnesium		375	5.0	0.074	mg/l	SW846 6010C
Potassium		28.6	10	0.20	mg/l	SW846 6010C
Selenium		0.0026 J	0.010	0.0020	mg/l	SW846 6010C
Sodium		189	40	2.0	mg/l	SW846 6010C
Alkalinity, Bicarbonate as CaCO3		61.0	5.0	5.0	mg/l	SM18 4500CO2D
Alkalinity, Total as CaCO3		61.0	5.0	0.60	mg/l	SM19 2320B
Chloride		102	50	20	mg/l	EPA 300/SW846 9056A
Fluoride		44.7	5.0	1.5	mg/l	EPA 300/SW846 9056A
Nitrogen, Nitrate		12.5	2.5	1.3	mg/l	EPA 300/SW846 9056A
Phosphorus, Total		0.049 J	0.10	0.028	mg/l	EPA 365.3
Solids, Total Dissolved		6180	500	50	mg/l	SM19 2540C
Specific Conductivity [a]		5700	1.0	1.0	umhos/cm	EPA 120.1
Sulfate		3910	100	30	mg/l	EPA 300/SW846 9056A
pH [b]		5.18			su	SM 4500H B/SW 9040C
FA7717-3F	**A-36-105**					
Phosphate, Ortho		0.11	0.10	0.019	mg/l	EPA 365.3
FA7717-4	**A-36-145**					
Aluminum		0.0318 J	0.20	0.015	mg/l	SW846 6010C
Arsenic		0.0030 J	0.010	0.0025	mg/l	SW846 6010C
Calcium		621	2.0	0.10	mg/l	SW846 6010C
Iron		0.474	0.30	0.029	mg/l	SW846 6010C
Magnesium		377	5.0	0.074	mg/l	SW846 6010C
Potassium		10.4	10	0.20	mg/l	SW846 6010C
Sodium		109	20	1.0	mg/l	SW846 6010C
Alkalinity, Bicarbonate as CaCO3		637	5.0	5.0	mg/l	SM18 4500CO2D
Alkalinity, Total as CaCO3		638	25	3.0	mg/l	SM19 2320B
Chloride		87.7	50	20	mg/l	EPA 300/SW846 9056A

Summary of Hits

Job Number: FA7717
Account: WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID
Collected: 08/28/13

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Solids, Total Dissolved		4360	500	50	mg/l	SM19 2540C
Specific Conductivity [a]		4460	1.0	1.0	umhos/cm	EPA 120.1
Sulfate		2610	100	30	mg/l	EPA 300/SW846 9056A
pH [b]		7.14			su	SM 4500H B/SW 9040C
FA7717-4F	**A-36-145**					
Phosphate, Ortho		0.13	0.10	0.019	mg/l	EPA 365.3

(a) Sample received outside the holding time.
(b) Field analysis required. Received out of hold time and analyzed by request.

Southeast ACCUTEST LABORATORIES

4

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: A-35-080
Lab Sample ID: FA7717-1
Matrix: AQ - Ground Water
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

Date Sampled: 08/28/13
Date Received: 08/30/13
Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	0.837	0.20	0.015	mg/l	1	09/09/13	09/09/13	LM	SW846 6010C [1]	SW846 3010A [3]
Antimony	0.0013 U	0.0060	0.0013	mg/l	1	09/09/13	09/09/13	LM	SW846 6010C [1]	SW846 3010A [3]
Arsenic	0.0143	0.010	0.0025	mg/l	1	09/09/13	09/09/13	LM	SW846 6010C [1]	SW846 3010A [3]
Cadmium	0.0016 J	0.0050	0.00050	mg/l	1	09/09/13	09/09/13	LM	SW846 6010C [1]	SW846 3010A [3]
Calcium	435	1.0	0.050	mg/l	1	09/09/13	09/09/13	LM	SW846 6010C [1]	SW846 3010A [3]
Chromium	0.0023 J	0.010	0.0020	mg/l	1	09/09/13	09/09/13	LM	SW846 6010C [1]	SW846 3010A [3]
Iron	1.22	0.30	0.029	mg/l	1	09/09/13	09/09/13	LM	SW846 6010C [1]	SW846 3010A [3]
Magnesium	281	5.0	0.074	mg/l	1	09/09/13	09/09/13	LM	SW846 6010C [1]	SW846 3010A [3]
Potassium	46.0	10	0.20	mg/l	1	09/09/13	09/09/13	LM	SW846 6010C [1]	SW846 3010A [3]
Selenium	0.0024 J	0.010	0.0020	mg/l	1	09/09/13	09/09/13	LM	SW846 6010C [1]	SW846 3010A [3]
Sodium	216	40	2.0	mg/l	4	09/09/13	09/10/13	LM	SW846 6010C [2]	SW846 3010A [3]

(1) Instrument QC Batch: MA11025
(2) Instrument QC Batch: MA11028
(3) Prep QC Batch: MP25796

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	A-35-080		
Lab Sample ID:	FA7717-1	**Date Sampled:**	08/28/13
Matrix:	AQ - Ground Water	**Date Received:**	08/30/13
		Percent Solids:	n/a
Project:	Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Alkalinity, Bicarbonate as CaC	788	5.0	5.0	mg/l	1	09/11/13 17:00	HH	SM18 4500CO2D
Alkalinity, Carbonate	5.0 U	5.0	5.0	mg/l	1	09/11/13 17:00	HH	SM18 4500CO2D
Alkalinity, Total as CaCO3	788	25	3.0	mg/l	1	09/11/13 17:00	HH	SM19 2320B
Chloride	164	50	20	mg/l	25	08/30/13 11:29	AA	EPA 300/SW846 9056A
Fluoride [a]	1.5 U	5.0	1.5	mg/l	25	09/09/13 12:00	AA	EPA 300/SW846 9056A
Nitrogen, Nitrate	64.2	2.5	1.3	mg/l	25	08/30/13 11:29	AA	EPA 300/SW846 9056A
Phosphorus, Total	72.4	25	13	mg/l	250	09/04/13 12:30	LE	EPA 365.3
Solids, Total Dissolved	3830	500	50	mg/l	5	08/30/13 18:00	KC	SM19 2540C
Specific Conductivity [b]	5500	1.0	1.0	umhos/cm	1	08/30/13 11:00	VK	EPA 120.1
Sulfate	2150	50	15	mg/l	25	08/30/13 11:29	AA	EPA 300/SW846 9056A
pH [c]	6.08			su	1	09/03/13 11:00	VK	SM 4500H B/SW 9040C

(a) Dilution required due to matrix interference.
(b) Sample received outside the holding time.
(c) Field analysis required. Received out of hold time and analyzed by request.

RL = Reporting Limit
MDL = Method Detection Limit
U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	A-35-080		
Lab Sample ID:	FA7717-1F	**Date Sampled:**	08/28/13
Matrix:	AQ - Groundwater Filtered	**Date Received:**	08/30/13
		Percent Solids:	n/a
Project:	Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Phosphate, Ortho	25.9	10	1.9	mg/l	100	08/30/13 11:00	KC	EPA 365.3

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: DUP 08282013
Lab Sample ID: FA7717-2
Matrix: AQ - Ground Water
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

Date Sampled: 08/28/13
Date Received: 08/30/13
Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	0.429	0.20	0.015	mg/l	1	09/09/13	09/09/13	LM	SW846 6010C [1]	SW846 3010A [3]
Antimony	0.0013 U	0.0060	0.0013	mg/l	1	09/09/13	09/09/13	LM	SW846 6010C [1]	SW846 3010A [3]
Arsenic	0.0150	0.010	0.0025	mg/l	1	09/09/13	09/09/13	LM	SW846 6010C [1]	SW846 3010A [3]
Cadmium	0.0016 J	0.0050	0.00050	mg/l	1	09/09/13	09/09/13	LM	SW846 6010C [1]	SW846 3010A [3]
Calcium	450	1.0	0.050	mg/l	1	09/09/13	09/09/13	LM	SW846 6010C [1]	SW846 3010A [3]
Chromium	0.0022 J	0.010	0.0020	mg/l	1	09/09/13	09/09/13	LM	SW846 6010C [1]	SW846 3010A [3]
Iron	1.24	0.30	0.029	mg/l	1	09/09/13	09/09/13	LM	SW846 6010C [1]	SW846 3010A [3]
Magnesium	294	5.0	0.074	mg/l	1	09/09/13	09/09/13	LM	SW846 6010C [1]	SW846 3010A [3]
Potassium	47.7	10	0.20	mg/l	1	09/09/13	09/09/13	LM	SW846 6010C [1]	SW846 3010A [3]
Selenium	0.0020 U	0.010	0.0020	mg/l	1	09/09/13	09/09/13	LM	SW846 6010C [1]	SW846 3010A [3]
Sodium	218	50	2.5	mg/l	5	09/09/13	09/10/13	LM	SW846 6010C [2]	SW846 3010A [3]

(1) Instrument QC Batch: MA11025
(2) Instrument QC Batch: MA11028
(3) Prep QC Batch: MP25796

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: DUP 08282013
Lab Sample ID: FA7717-2
Matrix: AQ - Ground Water
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

Date Sampled: 08/28/13
Date Received: 08/30/13
Percent Solids: n/a

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Alkalinity, Bicarbonate as CaC	743	5.0	5.0	mg/l	1	09/11/13 17:00	HH	SM18 4500CO2D
Alkalinity, Carbonate	5.0 U	5.0	5.0	mg/l	1	09/11/13 17:00	HH	SM18 4500CO2D
Alkalinity, Total as CaCO3	743	25	3.0	mg/l	1	09/11/13 17:00	HH	SM19 2320B
Chloride	156	50	20	mg/l	25	08/30/13 11:45	AA	EPA 300/SW846 9056A
Fluoride [a]	1.5 U	5.0	1.5	mg/l	25	09/09/13 12:17	AA	EPA 300/SW846 9056A
Nitrogen, Nitrate	64.9	2.5	1.3	mg/l	25	08/30/13 11:45	AA	EPA 300/SW846 9056A
Phosphorus, Total	69.7	25	13	mg/l	250	09/04/13 12:30	LE	EPA 365.3
Solids, Total Dissolved	3820	500	50	mg/l	5	09/03/13 14:55	KC	SM19 2540C
Specific Conductivity [b]	5400	1.0	1.0	umhos/cm	1	08/30/13 11:00	VK	EPA 120.1
Sulfate	2150	50	15	mg/l	25	08/30/13 11:45	AA	EPA 300/SW846 9056A
pH [c]	6.49			su	1	09/03/13 11:00	VK	SM 4500H B/SW 9040C

(a) Dilution required due to matrix interference.
(b) Sample received outside the holding time.
(c) Field analysis required. Received out of hold time and analyzed by request.

RL = Reporting Limit
MDL = Method Detection Limit
U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	DUP 08282013		
Lab Sample ID:	FA7717-2F	**Date Sampled:**	08/28/13
Matrix:	AQ - Groundwater Filtered	**Date Received:**	08/30/13
		Percent Solids:	n/a
Project:	Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Phosphate, Ortho	27.2	10	1.9	mg/l	100	08/30/13 11:00	KC	EPA 365.3

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: A-36-105
Lab Sample ID: FA7717-3
Matrix: AQ - Ground Water
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

Date Sampled: 08/28/13
Date Received: 08/30/13
Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	11.4	0.20	0.015	mg/l	1	09/09/13	09/09/13	LM	SW846 6010C [1]	SW846 3010A [3]
Antimony	0.0013 U	0.0060	0.0013	mg/l	1	09/09/13	09/09/13	LM	SW846 6010C [1]	SW846 3010A [3]
Arsenic	0.0033 J	0.010	0.0025	mg/l	1	09/09/13	09/09/13	LM	SW846 6010C [1]	SW846 3010A [3]
Cadmium	0.0844	0.0050	0.00050	mg/l	1	09/09/13	09/09/13	LM	SW846 6010C [1]	SW846 3010A [3]
Calcium	303	1.0	0.050	mg/l	1	09/09/13	09/09/13	LM	SW846 6010C [1]	SW846 3010A [3]
Chromium	0.0046 J	0.010	0.0020	mg/l	1	09/09/13	09/09/13	LM	SW846 6010C [1]	SW846 3010A [3]
Iron	4.51	0.30	0.029	mg/l	1	09/09/13	09/09/13	LM	SW846 6010C [1]	SW846 3010A [3]
Magnesium	375	5.0	0.074	mg/l	1	09/09/13	09/09/13	LM	SW846 6010C [1]	SW846 3010A [3]
Potassium	28.6	10	0.20	mg/l	1	09/09/13	09/09/13	LM	SW846 6010C [1]	SW846 3010A [3]
Selenium	0.0026 J	0.010	0.0020	mg/l	1	09/09/13	09/09/13	LM	SW846 6010C [1]	SW846 3010A [3]
Sodium	189	40	2.0	mg/l	4	09/09/13	09/10/13	LM	SW846 6010C [2]	SW846 3010A [3]

(1) Instrument QC Batch: MA11025
(2) Instrument QC Batch: MA11028
(3) Prep QC Batch: MP25796

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: A-36-105
Lab Sample ID: FA7717-3
Matrix: AQ - Ground Water
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

Date Sampled: 08/28/13
Date Received: 08/30/13
Percent Solids: n/a

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Alkalinity, Bicarbonate as CaC	61.0	5.0	5.0	mg/l	1	09/06/13 11:15	HH	SM18 4500CO2D
Alkalinity, Carbonate	5.0 U	5.0	5.0	mg/l	1	09/11/13 17:00	HH	SM18 4500CO2D
Alkalinity, Total as CaCO3	61.0	5.0	0.60	mg/l	1	09/06/13 11:15	AC	SM19 2320B
Chloride	102	50	20	mg/l	25	08/30/13 12:00	AA	EPA 300/SW846 9056A
Fluoride	44.7	5.0	1.5	mg/l	25	09/09/13 12:34	AA	EPA 300/SW846 9056A
Nitrogen, Nitrate	12.5	2.5	1.3	mg/l	25	08/30/13 12:00	AA	EPA 300/SW846 9056A
Phosphorus, Total	0.049 J	0.10	0.028	mg/l	1	09/09/13 09:00	LE	EPA 365.3
Solids, Total Dissolved	6180	500	50	mg/l	5	09/03/13 14:55	KC	SM19 2540C
Specific Conductivity [a]	5700	1.0	1.0	umhos/cm	1	08/30/13 11:00	VK	EPA 120.1
Sulfate	3910	100	30	mg/l	50	08/30/13 18:07	AA	EPA 300/SW846 9056A
pH [b]	5.18			su	1	09/03/13 11:00	VK	SM 4500H B/SW 9040C

(a) Sample received outside the holding time.
(b) Field analysis required. Received out of hold time and analyzed by request.

RL = Reporting Limit
MDL = Method Detection Limit
U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	A-36-105		
Lab Sample ID:	FA7717-3F	**Date Sampled:**	08/28/13
Matrix:	AQ - Groundwater Filtered	**Date Received:**	08/30/13
		Percent Solids:	n/a
Project:	Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Phosphate, Ortho	0.11	0.10	0.019	mg/l	1	08/30/13 11:00	KC	EPA 365.3

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: A-36-145
Lab Sample ID: FA7717-4
Matrix: AQ - Ground Water
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

Date Sampled: 08/28/13
Date Received: 08/30/13
Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	0.0318 J	0.20	0.015	mg/l	1	09/09/13	09/09/13	LM	SW846 6010C [1]	SW846 3010A [3]
Antimony [a]	0.0026 U	0.012	0.0026	mg/l	2	09/09/13	09/10/13	LM	SW846 6010C [2]	SW846 3010A [3]
Arsenic	0.0030 J	0.010	0.0025	mg/l	1	09/09/13	09/09/13	LM	SW846 6010C [1]	SW846 3010A [3]
Cadmium [a]	0.0010 U	0.010	0.0010	mg/l	2	09/09/13	09/10/13	LM	SW846 6010C [2]	SW846 3010A [3]
Calcium	621	2.0	0.10	mg/l	2	09/09/13	09/10/13	LM	SW846 6010C [2]	SW846 3010A [3]
Chromium [a]	0.0040 U	0.020	0.0040	mg/l	2	09/09/13	09/10/13	LM	SW846 6010C [2]	SW846 3010A [3]
Iron	0.474	0.30	0.029	mg/l	1	09/09/13	09/09/13	LM	SW846 6010C [1]	SW846 3010A [3]
Magnesium	377	5.0	0.074	mg/l	1	09/09/13	09/09/13	LM	SW846 6010C [1]	SW846 3010A [3]
Potassium	10.4	10	0.20	mg/l	1	09/09/13	09/09/13	LM	SW846 6010C [1]	SW846 3010A [3]
Selenium [a]	0.0040 U	0.020	0.0040	mg/l	2	09/09/13	09/10/13	LM	SW846 6010C [2]	SW846 3010A [3]
Sodium	109	20	1.0	mg/l	2	09/09/13	09/10/13	LM	SW846 6010C [2]	SW846 3010A [3]

(1) Instrument QC Batch: MA11025
(2) Instrument QC Batch: MA11028
(3) Prep QC Batch: MP25796

(a) Elevated reporting limit(s) due to matrix interference.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: A-36-145
Lab Sample ID: FA7717-4
Matrix: AQ - Ground Water
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

Date Sampled: 08/28/13
Date Received: 08/30/13
Percent Solids: n/a

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Alkalinity, Bicarbonate as CaC	637	5.0	5.0	mg/l	1	09/11/13 17:00	HH	SM18 4500CO2D
Alkalinity, Carbonate	5.0 U	5.0	5.0	mg/l	1	09/06/13 11:15	HH	SM18 4500CO2D
Alkalinity, Total as CaCO3	638	25	3.0	mg/l	1	09/11/13 17:00	HH	SM19 2320B
Chloride	87.7	50	20	mg/l	25	08/30/13 12:48	AA	EPA 300/SW846 9056A
Fluoride [a]	1.5 U	5.0	1.5	mg/l	25	09/09/13 12:51	AA	EPA 300/SW846 9056A
Nitrogen, Nitrate [a]	1.3 U	2.5	1.3	mg/l	25	08/30/13 12:48	AA	EPA 300/SW846 9056A
Phosphorus, Total	0.028 U	0.10	0.028	mg/l	1	09/09/13 09:00	LE	EPA 365.3
Solids, Total Dissolved	4360	500	50	mg/l	5	09/03/13 14:55	KC	SM19 2540C
Specific Conductivity [b]	4460	1.0	1.0	umhos/cm	1	08/30/13 11:00	VK	EPA 120.1
Sulfate	2610	100	30	mg/l	50	08/30/13 18:23	AA	EPA 300/SW846 9056A
pH [c]	7.14			su	1	09/03/13 11:00	VK	SM 4500H B/SW 9040C

(a) Dilution required due to matrix interference.
(b) Sample received outside the holding time.
(c) Field analysis required. Received out of hold time and analyzed by request.

RL = Reporting Limit
MDL = Method Detection Limit
U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	A-36-145		
Lab Sample ID:	FA7717-4F	**Date Sampled:**	08/28/13
Matrix:	AQ - Groundwater Filtered	**Date Received:**	08/30/13
		Percent Solids:	n/a
Project:	Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Phosphate, Ortho	0.13	0.10	0.019	mg/l	1	08/30/13 11:00	KC	EPA 365.3

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

Accutest Laboratories Southeast
Chain of Custody

ACCUTEST LABORATORIES

4405 Vineland Road, Suite C-15 Orlando, Fl 32811
TEL. 407-425-6700 • FAX: 407-425-0707
www.accutest.com

Accutest JOB # FA7717 FA7718 PAGE 1 OF 1

Accutest Quote # | SKIFF#

Client / Reporting Information

Company Name: WSP ENV & ENG
Address: 7050 Park St.
City: Jacksonville State: FLO Zip: 32256
Project Contact: Tim Huff E-mail: Tim.Huff@wspgroup.com
Phone#: 571-214-6709
Sampler(s) Name(s) (Printed): Taylor Pattie

Project Information

Project Name:
Street
City State
Project #
Fax #
Client Purchase Order #

Analytical Information

See Attached

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL - Sludge
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe

Accutest Sample #	Field ID / Point of Collection	COLLECTION DATE	TIME	SAMPLED BY:	MATRIX	TOTAL # OF BOTTLES	CONTAINER INFORMATION: OTHER	NONE	HCl	NaOH	HNO3	H2SO4	NaOH+ZnAc	DI WATER	MEOH
1	A-35-080	08/28/13	1150	TP	GW	4	2			1	X	X			
2	Dup 08282013	08/28/13	1230		GW	4					X	X			
3	A-76-105	08/28/13	1375		GW	4					X	X			
4	A-36-1415	08/28/13	1510		GW	4					X	X			

TURNAROUND TIME (Business Days)

Approved By: / Rush Code

- [ ] 10 Days Standard
- [ ] 7 Day RUSH
- [ ] 5 Day RUSH
- [ ] 3 Day EMERGENCY
- [ ] 2 Day EMERGENCY
- [ ] 1 Day EMERGENCY
- [ ] OTHER

Emergency or Rush T/A Data Available VIA Email or Lablink

Data Deliverable Information

- [ ] COMMERCIAL "A" (RESULTS ONLY)
- [ ] COMMERCIAL "B" (RESULTS PLUS QC)
- [ ] REDT1 (EPA LEVEL 3)
- [ ] FULT1 (EPA LEVEL 4)
- [ ] EDD'S

Comments / Remarks

Sample Custody must be documented below each time samples change possession, including courier delivery.

	Date Time:			Date Time:	
Relinquished by Sampler: 1	082913 1320	Received By: 2 FX	Relinquished by: 3 FX	8-30-13	Received By: 4 (Courier) 09:30
Relinquished by: 5	Date Time:	Received By: 6	Relinquished by: 7	Date Time:	Received By: 8

Lab Use Only: Custody Seal in Place: Y N Temp Blank Provided: Y N Preserved where Applicable: Y N Total # of Coolers: 1 Cooler Temperature (s) Celsius: 3.2

LAB USE ONLY

FA7717: Chain of Custody
Page 1 of 3

O-Phos - Field Filtered

Note: A-34-022 High Phosphate

Analyte List #2 (groundwater samples and groundwater sampling equipment blanks)

- total dissolved solids (TDS)
- Total metals - aluminum, antimony, arsenic, cadmium, calcium, chromium, iron, magnesium, potassium, selenium, and sodium
- chloride, fluoride, nitrate as N, and sulfate
- pH
- total phosphorous
- dissolved orthophosphate
- bicarbonate and carbonate alkalinity as CaCO3
- specific conductance

NOTE – If turbidity at the time of sampling is greater than 50 NTU, collect dissolved metals sample and submit to laboratory ON HOLD for the same analyte list as the total metals sample.

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: FA7717 FA7718 CLIENT: WSP PROJECT: ?

DATE/TIME RECEIVED: 8-30-13 09:30 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 1

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 8033 5737 4009

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET
- [ ] WET ICE PRESENT

TRIP BLANK INFORMATION

- [ ] TRIP BLANK PROVIDED
- [X] TRIP BLANK NOT PROVIDED
- [X] TRIP BLANK NOT ON COC
- [ ] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [ ] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM_____ 5-GRAM_____

NUMBER OF 5035 FIELD KITS ? _____

NUMBER OF LAB FILTERED METALS ? _____

TEMPERATURE INFORMATION

- [ ] IR THERM ID 1 CORR. FACTOR +0.4
- [ ] OBSERVED TEMPS: 2.8
- [ ] CORRECTED TEMPS: 3.2

SAMPLE INFORMATION

- [ ] SAMPLE LABELS PRESENT ON ALL BOTTLES
- [ ] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] 5035 FIELD KIT FROZEN WITHIN 48 HOUR'S
- [ ] RESIDUAL CHLORINE PRESENT

{APPICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

SUMMARY OF COMMENTS: NO PROJECT NAME ON COC

TECHNICIAN SIGNATURE/DATE [illegible] 8-30-13 REVIEWER SIGNATURE/DATE [illegible] 08/30/13

NF 12/10

receipt confirmation 122910.xls

5.1 5

FA7717: Chain of Custody

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Southeast ACCUTEST LABORATORIES

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Instrument Runlogs
- Initial and Continuing Calibration Blanks
- Initial and Continuing Calibration Checks
- High and Low Check Standards
- Interfering Element Check Standards
- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA7717
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB090913M1.ICP Date Analyzed: 09/09/13 Methods: SW846 6010C
Analyst: LM Run ID: MA11025
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
07:59	MA11025-STD1	1		STDA
08:04	MA11025-STD2	1		STDB
08:10	MA11025-STD3	1		STDC
08:14	MA11025-STD4	1		STDD
08:18	MA11025-HSTD1	1		
08:22	MA11025-ICV1	1		
08:32	MA11025-ICB1	1		
08:35	MA11025-CRIA1	1		
08:44	MA11025-ICSA1	1		
08:52	MA11025-ICSAB1	1		
09:00	MA11025-CCV1	1		
09:10	MA11025-CCB1	1		
09:18	MP25792-MB1	1		
09:22	MP25792-B1	1		
09:26	FA7875-1	1		(sample used for QC only; not part of login FA7717)
09:30	MP25792-D1	1		
09:34	MP25792-SD1	5		
09:38	MP25792-PS1	1		
09:42	MP25792-S1	1		
09:46	MP25792-S2	1		
09:50	MP25793-MB1	1		
09:54	MP25793-B1	1		
09:58	MA11025-CCV2	1		
10:02	MA11025-CCB2	1		
10:06	FA7834-29	1		(sample used for QC only; not part of login FA7717)
10:10	MP25793-D1	1		
10:15	MP25793-SD1	5		
10:19	MP25793-PS1	1		
10:23	MP25793-S1	1		
10:27	MP25793-S2	1		
10:36	ZZZZZZ	1		
10:40	ZZZZZZ	1		
10:44	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA7717
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB090913M1.ICP Date Analyzed: 09/09/13 Methods: SW846 6010C
Analyst: LM Run ID: MA11025
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
10:49	MA11025-CCV3	1		
10:52	MA11025-CCB3	1		
10:57	ZZZZZZ	1		
11:01	ZZZZZZ	1		
11:05	ZZZZZZ	1		
11:09	ZZZZZZ	1		
11:18	ZZZZZZ	1		
11:23	ZZZZZZ	1		
11:27	ZZZZZZ	1		
11:31	ZZZZZZ	1		
11:36	ZZZZZZ	1		
11:40	MA11025-CCV4	1		
11:44	MA11025-CCB4	1		
11:49	ZZZZZZ	1		
11:53	ZZZZZZ	1		
11:57	ZZZZZZ	1		
12:10	MP25796-MB1	1		
12:14	MP25796-B1	1		
12:18	FA7918-1	1		(sample used for QC only; not part of login FA7717)
12:22	MP25796-D1	1		
12:26	MP25796-SD1	5		
12:30	MA11025-CCV5	1		
12:34	MA11025-CCB5	1		
12:38	MP25796-PS1	1		
12:42	MP25796-S1	1		
12:46	MP25796-S2	1		
12:50	ZZZZZZ	1		
12:55	ZZZZZZ	1		
12:59	ZZZZZZ	1		
13:03	ZZZZZZ	1		
13:07	ZZZZZZ	1		
13:11	ZZZZZZ	1		
13:15	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA7717
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB090913M1.ICP Date Analyzed: 09/09/13 Methods: SW846 6010C
Analyst: LM Run ID: MA11025
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
13:19	MA11025-CCV6	1		
13:23	MA11025-CCB6	1		
13:27	ZZZZZZ	1		
13:32	ZZZZZZ	1		
13:36	ZZZZZZ	1		
13:40	ZZZZZZ	1		
13:44	FA7717-1	1		
13:48	FA7717-2	1		
13:53	FA7717-3	1		
13:57	FA7717-4	1		
14:07	ZZZZZZ	1		
14:11	MA11025-CCV7	1		
14:15	MA11025-CCB7	1		
14:19	ZZZZZZ	1		
14:23	ZZZZZZ	1		
14:27	MP25796-MB2A	1		
---------->	Last reportable sample/prep for job FA7717			
14:32	MP25801-MB1	1		
14:36	MP25801-B1	1		
15:02	MA11025-CCV8	1		
15:06	MA11025-CCB8	1		
15:24	ZZZZZZ	1		
15:28	ZZZZZZ	1		
15:33	ZZZZZZ	1		
15:37	ZZZZZZ	1		
15:41	ZZZZZZ	1		
15:45	ZZZZZZ	1		
15:53	MA11025-CCV9	1		
15:57	MA11025-CCB9	1		
16:06	ZZZZZZ	1		
16:18	ZZZZZZ	1		
16:23	ZZZZZZ	1		
16:27	ZZZZZZ	1		
16:31	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA7717
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB090913M1.ICP Date Analyzed: 09/09/13 Methods: SW846 6010C
Analyst: LM Run ID: MA11025
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
16:35	ZZZZZZ	1		
16:39	MA11025-CRIA2	1		
16:43	MA11025-CCV10	1		
16:47	MA11025-CCB10	1		
---------->	Last reportable CCB for job FA7717			
16:51	MA11025-ICSA2	1		
16:56	MA11025-ICSAB2	1		
17:00	MA11025-CCV11	1		
17:04	MA11025-CCB11	1		

Refer to raw data for calibration curve and standards.

INTERNAL STANDARD SUMMARY

Login Number: FA7717
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB090913M1.ICP Date Analyzed: 09/09/13 Methods: SW846 6010C
Analyst: LM Run ID: MA11025
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
07:59	MA11025-STD1	7794	48477	6645	2932
08:04	MA11025-STD2	7724	47323	6657	2795
08:10	MA11025-STD3	7420	45566	6600	2532
08:14	MA11025-STD4	7022	43513	6438	2262
08:18	MA11025-HSTD1	7003	43291	6378	2252
08:22	MA11025-ICV1	7461	45478	6601	2525
08:32	MA11025-ICB1	7721 R	47509 R	6468 R	2867 R
08:35	MA11025-CRIA1	7639	46583	6456	2781
08:44	MA11025-ICSA1	6617	39712	6296	2276
08:52	MA11025-ICSAB1	6618	39426	6171	2244
09:00	MA11025-CCV1	7186	43698	6310	2431
09:10	MA11025-CCB1	7675	47171	6403	2847
09:18	MP25792-MB1	7777	47906	6628	2858
09:22	MP25792-B1	7395	45098	6524	2604
09:26	FA7875-1	7380	45338	6552	2652
09:30	MP25792-D1	7361	45132	6505	2643
09:34	MP25792-SD1	7523	46109	6420	2757
09:38	MP25792-PS1	7354	44791	6529	2601
09:42	MP25792-S1	7201	43832	6520	2502
09:46	MP25792-S2	7191	43857	6417	2504
09:50	MP25793-MB1	7515	46615	6457	2754
09:54	MP25793-B1	7197	44046	6319	2531
09:58	MA11025-CCV2	7283	44351	6353	2456
10:02	MA11025-CCB2	7886	48242	6544	2922
10:06	FA7834-29	8274	50123	7811	2150
10:10	MP25793-D1	8720	52178	8142 !	2187
10:15	MP25793-SD1	7678	46665	6695	2546
10:19	MP25793-PS1	8172	49314	7689	2125
10:23	MP25793-S1	8316	50105	7835	2104
10:27	MP25793-S2	8307	50205	7813	2104
10:36	ZZZZZZ	8768	52770	8132 !	2170
10:40	ZZZZZZ	7783	47228	7519	1853
10:44	ZZZZZZ	9250	55405	8512 !	2133

INTERNAL STANDARD SUMMARY

Login Number: FA7717
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB090913M1.ICP Date Analyzed: 09/09/13 Methods: SW846 6010C
Analyst: LM Run ID: MA11025
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
10:49	MA11025-CCV3	7266	43932	6055	2441
10:52	MA11025-CCB3	7689	47193	6210	2851
10:57	ZZZZZZ	6412	39135	6276	1758
11:01	ZZZZZZ	8792	52704	8027	2141
11:05	ZZZZZZ	10039 !	60273 !	9471 !	2120
11:09	ZZZZZZ	8995	53628	8269 !	2178
11:18	ZZZZZZ	8919	53083	8117 !	2251
11:23	ZZZZZZ	8275	49546	7702	1943
11:27	ZZZZZZ	9110	54509	8303 !	2158
11:31	ZZZZZZ	9053	56465	8741 !	2149
11:36	ZZZZZZ	7932	47602	7000	2205
11:40	MA11025-CCV4	7444	45171	6118	2503
11:44	MA11025-CCB4	7853	48131	6184	2908
11:49	ZZZZZZ	9998 !	59976 !	9269 !	2182
11:53	ZZZZZZ	8588	51379	7744	2302
11:57	ZZZZZZ	7476	45168	6336	2521
12:10	MP25796-MB1	7730	47281	6147	2863
12:14	MP25796-B1	7398	44825	6017	2595
12:18	FA7918-1	7387	45129	6101	2641
12:22	MP25796-D1	7476	45318	6181	2675
12:26	MP25796-SD1	7752	47344	6167	2831
12:30	MA11025-CCV5	7379	44643	6103	2484
12:34	MA11025-CCB5	7815	47771	6154	2885
12:38	MP25796-PS1	7364	44618	6135	2606
12:42	MP25796-S1	7368	44358	6224	2554
12:46	MP25796-S2	7387	44715	6264	2561
12:50	ZZZZZZ	9751	59019	8450	2533
12:55	ZZZZZZ	7705	46806	6359	2765
12:59	ZZZZZZ	7755	47335	6326	2776
13:03	ZZZZZZ	7732	47107	6300	2789
13:07	ZZZZZZ	7771	47633	6307	2841
13:11	ZZZZZZ	7601	46385	6289	2712
13:15	ZZZZZZ	7573	46351	6285	2712

INTERNAL STANDARD SUMMARY

Login Number: FA7717
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB090913M1.ICP Date Analyzed: 09/09/13 Methods: SW846 6010C
Analyst: LM Run ID: MA11025
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
13:19	MA11025-CCV6	7422	44895	6140	2504
13:23	MA11025-CCB6	7858	48250	6187	2895
13:27	ZZZZZZ	7546	45995	6234	2698
13:32	ZZZZZZ	7573	46165	6273	2694
13:36	ZZZZZZ	7769	47337	6261	2813
13:40	ZZZZZZ	7780	47380	6284	2814
13:44	FA7717-1	6840	41243	6024	2317
13:48	FA7717-2	6852	41532	6007	2313
13:53	FA7717-3	10023	60076	9054	2272
13:57	FA7717-4	6709	40736	6030	2298
14:07	ZZZZZZ	6855	41783	5949	2333
14:11	MA11025-CCV7	7240	43730	5993	2432
14:15	MA11025-CCB7	7739	47321	6084	2855
14:19	ZZZZZZ	7300	44503	6130	2571
14:23	ZZZZZZ	7802	48165	6298	2872
14:27	MP25796-MB2A	7749	47713	6216	2844
14:32	MP25801-MB1	7835	47664	6374	2859
14:36	MP25801-B1	7366	44556	6124	2561
15:02	MA11025-CCV8	7477	45412	6274	2513
15:06	MA11025-CCB8	7920	48652	6357	2916
15:24	ZZZZZZ	7960	47796	6894	2764
15:28	ZZZZZZ	8034	47403	6766	2837
15:33	ZZZZZZ	8071	48120	6837	2743
15:37	ZZZZZZ	8133	48293	6944	2716
15:41	ZZZZZZ	7906	47091	6633	2807
15:45	ZZZZZZ	7832	46928	6700	2709
15:53	MA11025-CCV9	7634	46215	6545	2545
15:57	MA11025-CCB9	8052	49973	6641	2959
16:06	ZZZZZZ	9383	56280	7995	2734
16:18	ZZZZZZ	8388	50506	7765	2419
16:23	ZZZZZZ	7737	47250	6701	2769
16:27	ZZZZZZ	8007	47889	7328	2508
16:31	ZZZZZZ	7727	47081	6689	2716

INTERNAL STANDARD SUMMARY

Login Number: FA7717
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB090913M1.ICP Date Analyzed: 09/09/13 Methods: SW846 6010C
Analyst: LM Run ID: MA11025
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
16:35	ZZZZZZ	9441	56508	8138 !	2771
16:39	MA11025-CRIA2	8174	50283	6766	2959
16:43	MA11025-CCV10	7676	47164	6774	2576
16:47	MA11025-CCB10	8128	50506	6746	3011
16:51	MA11025-ICSA2	6938	41755	6383	2388
16:56	MA11025-ICSAB2	No results reported for the elements associated with this internal standard.			
17:00	MA11025-CCV11	7514	46364	6587	2519
17:04	MA11025-CCB11	8017	49612	6690	2960

R = Reference for ISTD limits. ! = Outside limits.

LEGEND:

Istd#	Parameter	Limits
Istd#1	Yttrium (2243)	60-125 %
Istd#2	Yttrium (3600)	60-125 %
Istd#3	Yttrium (3710)	60-125 %
Istd#4	Indium	60-125 %

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: FA7717
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB090913M1.ICP Date Analyzed: 09/09/13 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA11025 Units: ug/l

Time: / Sample ID:			08:32 ICB1		09:10 CCB1		10:02 CCB2		10:52 CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	15	-7.1	<200	-2.9	<200	-4.9	<200	1.3	<200
Antimony	6.0	1.3	1.1	<6.0	-2.8	<6.0	-1.8	<6.0	-1.7	<6.0
Arsenic	10	1.6	0.60	<10	0.80	<10	0.60	<10	0.70	<10
Barium	200	1	anr							
Beryllium	4.0	.5								
Cadmium	5.0	.5	0.0	<5.0	0.10	<5.0	0.10	<5.0	0.20	<5.0
Calcium	1000	50	0.80	<1000	3.6	<1000	4.6	<1000	34.1	<1000
Chromium	10	1.8	0.10	<10	0.10	<10	0.40	<10	0.20	<10
Cobalt	50	.5								
Copper	25	1	anr							
Iron	300	29	-4.6	<300	-0.60	<300	5.5	<300	6.6	<300
Lead	5.0	1.1	anr							
Magnesium	5000	74	1.3	<5000	13.4	<5000	10.0	<5000	12.3	<5000
Manganese	15	.7								
Molybdenum	50	.6								
Nickel	40	.5								
Potassium	10000	200	25.6	<10000	-38	<10000	10.2	<10000	9.0	<10000
Selenium	10	2	0.0	<10	2.0	<10	1.3	<10	0.30	<10
Silver	10	.5	anr							
Sodium	10000	500	2.4	<10000	6.0	<10000	6.1	<10000	-2.2	<10000
Strontium	10	.5								
Thallium	10	1.3								
Tin	50	.7								
Titanium	10	.9								
Vanadium	50	.5								
Zinc	20	3	anr							

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: FA7717
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB090913M1.ICP Date Analyzed: 09/09/13 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA11025 Units: ug/l

Time: / Sample ID:			11:44 CCB4		12:34 CCB5		13:23 CCB6		14:15 CCB7	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	15	-3.6	<200	6.5	<200	3.7	<200	4.5	<200
Antimony	6.0	1.3	-2.0	<6.0	-2.4	<6.0	-1.9	<6.0	-2.2	<6.0
Arsenic	10	1.6	0.50	<10	0.90	<10	1.1	<10	0.60	<10
Barium	200	1	anr							
Beryllium	4.0	.5								
Cadmium	5.0	.5	0.20	<5.0	0.20	<5.0	0.20	<5.0	0.20	<5.0
Calcium	1000	50	24.5	<1000	13.3	<1000	10.8	<1000	18.7	<1000
Chromium	10	1.8	0.50	<10	0.40	<10	0.30	<10	0.30	<10
Cobalt	50	.5								
Copper	25	1	anr							
Iron	300	29	7.9	<300	8.0	<300	7.6	<300	12.0	<300
Lead	5.0	1.1	anr							
Magnesium	5000	74	8.0	<5000	3.0	<5000	15.0	<5000	17.9	<5000
Manganese	15	.7								
Molybdenum	50	.6								
Nickel	40	.5								
Potassium	10000	200	14.4	<10000	-42	<10000	-54	<10000	-4.0	<10000
Selenium	10	2	0.70	<10	0.40	<10	0.60	<10	0.20	<10
Silver	10	.5	anr							
Sodium	10000	500	-2.0	<10000	-7.6	<10000	-12	<10000	8.3	<10000
Strontium	10	.5								
Thallium	10	1.3								
Tin	50	.7								
Titanium	10	.9								
Vanadium	50	.5								
Zinc	20	3	anr							

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: FA7717
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB090913M1.ICP Date Analyzed: 09/09/13 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA11025 Units: ug/l

Time: / Sample ID:			15:06 CCB8		15:57 CCB9		16:47 CCB10	
Metal	RL	IDL	raw	final	raw	final	raw	final
Aluminum	200	15	7.4	<200	14.7	<200	4.4	<200
Antimony	6.0	1.3	-3.7	<6.0	-3.8	<6.0	-2.9	<6.0
Arsenic	10	1.6	0.30	<10	0.80	<10	0.10	<10
Barium	200	1	anr					
Beryllium	4.0	.5						
Cadmium	5.0	.5	0.30	<5.0	0.20	<5.0	0.20	<5.0
Calcium	1000	50	9.7	<1000	9.1	<1000	9.2	<1000
Chromium	10	1.8	0.0	<10	0.20	<10	0.20	<10
Cobalt	50	.5						
Copper	25	1	anr					
Iron	300	29	9.4	<300	6.9	<300	4.7	<300
Lead	5.0	1.1	anr					
Magnesium	5000	74	16.8	<5000	5.0	<5000	-0.90	<5000
Manganese	15	.7						
Molybdenum	50	.6						
Nickel	40	.5						
Potassium	10000	200	22.3	<10000	-23	<10000	-41	<10000
Selenium	10	2	0.50	<10	2.0	<10	1.2	<10
Silver	10	.5	anr					
Sodium	10000	500	-14	<10000	-11	<10000	-7.9	<10000
Strontium	10	.5						
Thallium	10	1.3						
Tin	50	.7						
Titanium	10	.9						
Vanadium	50	.5						
Zinc	20	3	anr					

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA7717
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB090913M1.ICP Date Analyzed: 09/09/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA11025 Units: ug/l

Time:		08:22			09:00			09:58	
Sample ID:	ICV	ICV1		CCV	CCV1		CCV	CCV2	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	38600	96.5	40000	41100	102.8	40000	41000	102.5
Antimony	2000	1890	94.5	2000	1990	99.5	2000	1980	99.0
Arsenic	2000	1900	95.0	2000	2010	100.5	2000	1990	99.5
Barium	anr								
Beryllium									
Cadmium	2000	1940	97.0	2000	2050	102.5	2000	2040	102.0
Calcium	40000	40500	101.3	40000	41400	103.5	40000	41000	102.5
Chromium	2000	1970	98.5	2000	2060	103.0	2000	2050	102.5
Cobalt									
Copper	anr								
Iron	40000	39800	99.5	40000	41500	103.8	40000	41200	103.0
Lead	anr								
Magnesium	40000	38400	96.0	40000	41000	102.5	40000	40800	102.0
Manganese									
Molybdenum									
Nickel									
Potassium	40000	39400	98.5	40000	41000	102.5	40000	40800	102.0
Selenium	2000	1920	96.0	2000	2010	100.5	2000	1990	99.5
Silver	anr								
Sodium	40000	40300	100.8	40000	41800	104.5	40000	41200	103.0
Strontium									
Thallium									
Tin									
Titanium									
Vanadium									
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA7717
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB090913M1.ICP Date Analyzed: 09/09/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA11025 Units: ug/l

Time:		10:49			11:40			12:30	
Sample ID:	CCV	CCV3		CCV	CCV4		CCV	CCV5	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	41400	103.5	40000	39700	99.3	40000	39900	99.8
Antimony	2000	2000	100.0	2000	1930	96.5	2000	1970	98.5
Arsenic	2000	2020	101.0	2000	1950	97.5	2000	1970	98.5
Barium	anr								
Beryllium									
Cadmium	2000	2060	103.0	2000	1990	99.5	2000	2000	100.0
Calcium	40000	41400	103.5	40000	40400	101.0	40000	40100	100.3
Chromium	2000	2060	103.0	2000	2000	100.0	2000	2000	100.0
Cobalt									
Copper	anr								
Iron	40000	41800	104.5	40000	40700	101.8	40000	40700	101.8
Lead	anr								
Magnesium	40000	41300	103.3	40000	40500	101.3	40000	40500	101.3
Manganese									
Molybdenum									
Nickel									
Potassium	40000	42900	107.3	40000	42000	105.0	40000	41700	104.3
Selenium	2000	2010	100.5	2000	1940	97.0	2000	1980	99.0
Silver	anr								
Sodium	40000	42700	106.8	40000	40300	100.8	40000	39700	99.3
Strontium									
Thallium									
Tin									
Titanium									
Vanadium									
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA7717
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB090913M1.ICP Date Analyzed: 09/09/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA11025 Units: ug/l

Time:		13:19			14:11			15:02	
Sample ID:	CCV	CCV6		CCV	CCV7		CCV	CCV8	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	39700	99.3	40000	41000	102.5	40000	40600	101.5
Antimony	2000	1960	98.0	2000	2000	100.0	2000	1980	99.0
Arsenic	2000	1970	98.5	2000	2010	100.5	2000	1990	99.5
Barium	anr								
Beryllium									
Cadmium	2000	1990	99.5	2000	2050	102.5	2000	2030	101.5
Calcium	40000	40000	100.0	40000	41500	103.8	40000	40900	102.3
Chromium	2000	1990	99.5	2000	2060	103.0	2000	2030	101.5
Cobalt									
Copper	anr								
Iron	40000	40500	101.3	40000	42300	105.8	40000	41700	104.3
Lead	anr								
Magnesium	40000	40600	101.5	40000	41500	103.8	40000	40800	102.0
Manganese									
Molybdenum									
Nickel									
Potassium	40000	41400	103.5	40000	41800	104.5	40000	40700	101.8
Selenium	2000	1980	99.0	2000	2010	100.5	2000	2000	100.0
Silver	anr								
Sodium	40000	39500	98.8	40000	40200	100.5	40000	40300	100.8
Strontium									
Thallium									
Tin									
Titanium									
Vanadium									
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA7717
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB090913M1.ICP Date Analyzed: 09/09/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA11025 Units: ug/l

Time:		15:53			16:43	
Sample ID:	CCV	CCV9		CCV	CCV10	
Metal	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	41100	102.8	40000	40100	100.3
Antimony	2000	1970	98.5	2000	1980	99.0
Arsenic	2000	1980	99.0	2000	1990	99.5
Barium	anr					
Beryllium						
Cadmium	2000	2020	101.0	2000	2000	100.0
Calcium	40000	40500	101.3	40000	39900	99.8
Chromium	2000	2020	101.0	2000	1980	99.0
Cobalt						
Copper	anr					
Iron	40000	42400	106.0	40000	41100	102.8
Lead	anr					
Magnesium	40000	39700	99.3	40000	39300	98.3
Manganese						
Molybdenum						
Nickel						
Potassium	40000	40200	100.5	40000	39600	99.0
Selenium	2000	1980	99.0	2000	1990	99.5
Silver	anr					
Sodium	40000	39900	99.8	40000	39400	98.5
Strontium						
Thallium						
Tin						
Titanium						
Vanadium						
Zinc	anr					

(*) Outside of QC limits
(anr) Analyte not requested

HIGH STANDARD CHECK SUMMARY

Login Number: FA7717
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB090913M1.ICP Date Analyzed: 09/09/13 Methods: SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA11025 Units: ug/l

Time:		08:18	
Sample ID:	HSTD	HSTD1	
Metal	True	Results	% Rec
Aluminum	80000	80600	100.8
Antimony	4000	4030	100.8
Arsenic	4000	4030	100.8
Barium	anr		
Beryllium			
Cadmium	4000	4030	100.8
Calcium	80000	81100	101.4
Chromium	4000	4050	101.3
Cobalt			
Copper	anr		
Iron	80000	81600	102.0
Lead	anr		
Magnesium	80000	80200	100.3
Manganese			
Molybdenum			
Nickel			
Potassium	80000	80000	100.0
Selenium	4000	4020	100.5
Silver	anr		
Sodium	80000	80300	100.4
Strontium			
Thallium			
Tin			
Titanium			
Vanadium			
Zinc	anr		

(*) Outside of QC limits
(anr) Analyte not requested

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: FA7717
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB090913M1.ICP Date Analyzed: 09/09/13 Methods: SW846 6010C
QC Limits: CRI 70-130% CRIA 70-130% Run ID: MA11025 Units: ug/l

Time:			08:35		16:39	
Sample ID:	CRI	CRIA	CRIA1		CRIA2	
Metal	True	True	Results	% Rec	Results	% Rec
Aluminum	400	200	199	99.5	219	109.5
Antimony	10	5.0	3.9	78.0	1.0U	0.0* (a)
Arsenic	20	10	10.5	105.0	9.8	98.0
Barium	400	200	anr			
Beryllium	10	5.0				
Cadmium	10	5.0	5.0	100.0	4.9	98.0
Calcium	2000	1000	1030	103.0	1000	100.0
Chromium	20	10	10.0	100.0	9.6	96.0
Cobalt	100	50				
Copper	50	25	anr			
Iron	600	300	305	101.7	331	110.3
Lead	10	5.0	anr			
Magnesium	10000	5000	5030	100.6	4910	98.2
Manganese	30	15				
Molybdenum	100	50				
Nickel	80	40				
Potassium	20000	10000	9850	98.5	9920	99.2
Selenium	20	10	10.5	105.0	10.5	105.0
Silver	20	10	anr			
Sodium	20000	10000	10200	102.0	9890	98.9
Strontium	20	10				
Thallium	20	10				
Tin	100	50				
Titanium	20	10				
Vanadium	100	50				
Zinc	40	20	anr			

(*) Outside of QC limits
(anr) Analyte not requested
(a) Possible instrument baseline drift.

INTERFERING ELEMENT CHECK STANDARDS SUMMARY
Part 1 - ICSA and ICSAB Standards

Login Number: FA7717
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB090913M1.ICP Date Analyzed: 09/09/13 Methods: SW846 6010C
QC Limits: 80 to 120 % Recovery Run ID: MA11025 Units: ug/l

Time:			08:44		08:52	
Sample ID:	ICSA	ICSAB	ICSA1		ICSAB1	
Metal	True	True	Results	% Rec	Results	% Rec
Aluminum	500000	500000	507000	101.4	507000	101.4
Antimony		1000	-0.10		1010	101.0
Arsenic		1000	1.6		1030	103.0
Barium		500	-0.10		515	103.0
Beryllium		500	0.10		505	101.0
Cadmium		1000	0.90		948	94.8
Calcium	500000	500000	478000	95.6	484000	96.8
Chromium		500	-0.70		486	97.2
Cobalt		500	-0.10		469	93.8
Copper		500	0.0		511	102.2
Iron	200000	200000	191000	95.5	187000	93.5
Lead		1000	-0.10		907	90.7
Magnesium	500000	500000	478000	95.6	487000	97.4
Manganese		500	0.90		495	99.0
Molybdenum		1000	0.40		972	97.2
Nickel		1000	0.70		922	92.2
Potassium			110		38.2	
Selenium		1000	0.0		990	99.0
Silver		1000	0.50		974	97.4
Sodium			170		112	
Strontium		1000	12.9		1040	104.0
Thallium		1000	0.40		930	93.0
Tin		1000	0.30		946	94.6
Titanium		1000	-6.0		995	99.5
Vanadium		500	0.50		488	97.6
Zinc		1000	0.0		949	94.9

(*) Outside of QC limits
(anr) Analyte not requested

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA7717
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB091013M1.ICP Date Analyzed: 09/10/13 Methods: SW846 6010C
Analyst: LM Run ID: MA11028
Parameters: Sb,Cd,Ca,Cr,Se,Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
07:54	MA11028-STD1	1		STDA
07:59	MA11028-STD2	1		STDB
08:02	MA11028-STD3	1		STDC
08:05	MA11028-STD4	1		STDD
08:10	MA11028-HSTD1	1		
08:17	MA11028-ICV1	1		
08:25	MA11028-ICB1	1		
08:30	MA11028-CRIA1	1		
08:37	MA11028-ICSA1	1		
08:45	MA11028-ICSAB1	1		
08:55	MA11028-CCV1	1		
09:02	MA11028-CCB1	1		
09:08	MP25803-MB1	1		
09:12	MP25803-B1	1		
09:47	ZZZZZZ	1		
09:51	MA11028-CCV2	1		
09:55	MA11028-CCB2	1		
09:59	ZZZZZZ	1		
10:03	ZZZZZZ	1		
10:07	ZZZZZZ	1		
10:12	ZZZZZZ	1		
10:16	ZZZZZZ	1		
10:20	ZZZZZZ	1		
10:24	ZZZZZZ	1		
10:29	ZZZZZZ	1		
10:33	ZZZZZZ	1		
10:38	ZZZZZZ	1		
10:42	MA11028-CCV3	1		
10:46	MA11028-CCB3	1		
10:50	ZZZZZZ	1		
10:54	ZZZZZZ	1		
10:58	ZZZZZZ	1		
11:02	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA7717
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB091013M1.ICP Date Analyzed: 09/10/13 Methods: SW846 6010C
Analyst: LM Run ID: MA11028
Parameters: Sb,Cd,Ca,Cr,Se,Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
11:06	ZZZZZZ	1		
11:10	ZZZZZZ	1		
11:14	ZZZZZZ	1		
11:18	ZZZZZZ	5		
11:22	ZZZZZZ	5		
11:26	ZZZZZZ	4		
11:31	MA11028-CCV4	1		
11:35	MA11028-CCB4	1		
11:39	ZZZZZZ	4		
11:43	ZZZZZZ	4		
11:47	ZZZZZZ	4		
11:55	FA7717-1	4		
11:59	FA7717-2	5		
12:03	FA7717-3	4		
12:08	FA7717-4	2		
12:12	ZZZZZZ	5		
12:16	ZZZZZZ	4		
12:20	MA11028-CCV5	1		
12:24	MA11028-CCB5	1		
12:28	FA7841-1	5		(sample used for QC only; not part of login FA7717)
12:33	MP25801-D1	5		
12:37	MP25801-S1	5		
12:41	MP25801-S2	5		
12:45	MP25801-PS1	5		
12:50	MP25801-SD1	25		
12:54	ZZZZZZ	5		
12:58	ZZZZZZ	5		
13:02	ZZZZZZ	10		
13:06	ZZZZZZ	10		
13:10	MA11028-CCV6	1		
13:15	MA11028-CCB6	1		
13:19	ZZZZZZ	2		
13:23	ZZZZZZ	2		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA7717
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB091013M1.ICP Date Analyzed: 09/10/13 Methods: SW846 6010C
Analyst: LM Run ID: MA11028
Parameters: Sb,Cd,Ca,Cr,Se,Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
13:27	MP25807-MB1	1		
13:31	MP25807-B1	1		
13:35	FA7632-1L	1		(sample used for QC only; not part of login FA7717)
13:39	MP25807-D1	1		
13:44	MP25807-SD1	5		
13:48	MP25807-S1	1		
13:52	MP25807-S2	1		
13:56	ZZZZZZ	1		
14:00	MA11028-CCV7	1		
14:05	MA11028-CCB7	1		
14:09	ZZZZZZ	1		
14:13	ZZZZZZ	1		
14:17	MP25807-D2	1		
14:21	MP25807-MB2	1		
14:26	MP25807-B2	1		
14:30	MP25807-SD1	5		
14:34	MP25809-MB1	1		
14:38	MP25809-B1	1		
14:42	FA7930-10	1		(sample used for QC only; not part of login FA7717)
14:46	MP25809-D1	1		
14:50	MA11028-CCV8	1		
14:54	MA11028-CCB8	1		
15:02	MP25809-SD1	5		
15:06	MP25809-PS1	1		
15:10	MP25809-S1	1		
15:14	MP25809-S2	1		
15:18	MP25796-MB1	1		
---------->	Last reportable sample/prep for job FA7717			
15:22	ZZZZZZ	1		
15:26	ZZZZZZ	1		
15:30	ZZZZZZ	1		
15:34	ZZZZZZ	1		
15:39	ZZZZZZ	1		
15:43	MA11028-CCV9	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA7717
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB091013M1.ICP Date Analyzed: 09/10/13 Methods: SW846 6010C
Analyst: LM Run ID: MA11028
Parameters: Sb,Cd,Ca,Cr,Se,Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
15:47	MA11028-CCB9	1		
15:51	ZZZZZZ	1		
15:55	ZZZZZZ	1		
15:59	ZZZZZZ	1		
16:03	ZZZZZZ	1		
16:07	ZZZZZZ	1		
16:11	ZZZZZZ	1		
16:16	ZZZZZZ	1		
16:20	ZZZZZZ	1		
16:24	ZZZZZZ	1		
16:28	ZZZZZZ	1		
16:32	MA11028-CCV10	1		
16:36	MA11028-CCB10	1		
16:40	ZZZZZZ	1		
16:45	ZZZZZZ	1		
16:49	ZZZZZZ	1		
16:53	ZZZZZZ	1		
16:57	MA11028-CRIA2	1		
17:01	MA11028-ICSA2	1		
17:05	MA11028-ICSAB2	1		
17:10	MA11028-CCV11	1		
17:14	MA11028-CCB11	1		

----------> Last reportable CCB for job FA7717
Refer to raw data for calibration curve and standards.

INTERNAL STANDARD SUMMARY

Login Number: FA7717
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB091013M1.ICP Date Analyzed: 09/10/13 Methods: SW846 6010C
Analyst: LM Run ID: MA11028
Parameters: Sb,Cd,Ca,Cr,Se,Na

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
07:54	MA11028-STD1	8985	50877	6805	3355
07:59	MA11028-STD2	8734	48877	6671	3104
08:02	MA11028-STD3	8372	47263	6681	2843
08:05	MA11028-STD4	8022	45485	6666	2651
08:10	MA11028-HSTD1	8076	45963	6709	2680
08:17	MA11028-ICV1	8363	46965	6750	2851
08:25	MA11028-ICB1	8977 R	50812 R	6906 R	3347 R
08:30	MA11028-CRIA1	8834	49496	6835	3191
08:37	MA11028-ICSA1	7636	41434	6455	2513
08:45	MA11028-ICSAB1	7659	41591	6487	2500
08:55	MA11028-CCV1	8367	46818	6723	2816
09:02	MA11028-CCB1	8871	50283	6821	3298
09:08	MP25803-MB1	8987	50920	6933	3289
09:12	MP25803-B1	8469	47048	6685	2906
09:47	ZZZZZZ	11127	62061	8783 !	2855
09:51	MA11028-CCV2	8402	46892	6678	2835
09:55	MA11028-CCB2	8973	50508	6723	3320
09:59	ZZZZZZ	11484 !	63622 !	9129 !	2829
10:03	ZZZZZZ	10600	58931	8540	2880
10:07	ZZZZZZ	11524 !	64288 !	9611 !	2714
10:12	ZZZZZZ	11045	61583	8885 !	2812
10:16	ZZZZZZ	11103	61468	8961 !	2776
10:20	ZZZZZZ	8645	48769	6830	3024
10:24	ZZZZZZ	8647	48649	6983	2827
10:29	ZZZZZZ	74610 !	400090 !	61226 !	2621
10:33	ZZZZZZ	8926	50873	6694	3277
10:38	ZZZZZZ	8915	50512	6701	3262
10:42	MA11028-CCV3	8421	47067	6569	2853
10:46	MA11028-CCB3	8882	50672	6710	3323
10:50	ZZZZZZ	8790	51146	6746	3223
10:54	ZZZZZZ	8836	50390	6779	3160
10:58	ZZZZZZ	8899	51033	6823	3255
11:02	ZZZZZZ	8782	50075	6715	3208

INTERNAL STANDARD SUMMARY

Login Number: FA7717
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB091013M1.ICP Date Analyzed: 09/10/13 Methods: SW846 6010C
Analyst: LM Run ID: MA11028
Parameters: Sb,Cd,Ca,Cr,Se,Na

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
11:06	ZZZZZZ	8914	50670	6759	3274
11:10	ZZZZZZ	8903	50623	6703	3270
11:14	ZZZZZZ	9868	55337	7561	3171
11:18	ZZZZZZ	10476	57460	8313	2751
11:22	ZZZZZZ	9476	51569	7533	2768
11:26	ZZZZZZ	8728	47894	6873	2801
11:31	MA11028-CCV4	8335	46180	6494	2820
11:35	MA11028-CCB4	8860	49555	6553	3297
11:39	ZZZZZZ	9413	51597	7444	2754
11:43	ZZZZZZ	8932	49376	7125	2714
11:47	ZZZZZZ	8983	49589	7067	2806
11:55	FA7717-1	8294	46213	6473	2837
11:59	FA7717-2	8360	46755	6494	2884
12:03	FA7717-3	9195	50803	7294	2793
12:08	FA7717-4	7914	44363	6405	2679
12:12	ZZZZZZ	8818	48298	7094	2718
12:16	ZZZZZZ	8360	46828	6511	2889
12:20	MA11028-CCV5	8249	46602	6404	2797
12:24	MA11028-CCB5	8837	49964	6539	3297
12:28	FA7841-1	9507	52592	7263	2945
12:33	MP25801-D1	9492	52265	7307	2906
12:37	MP25801-S1	9477	52507	7261	2929
12:41	MP25801-S2	9855	54547	7607	2868
12:45	MP25801-PS1	9519	52916	7366	2925
12:50	MP25801-SD1	9042	50678	6840	3192
12:54	ZZZZZZ	9684	53789	7598	2986
12:58	ZZZZZZ	10237	56846	8136	2976
13:02	ZZZZZZ	9596	53408	7360	3240
13:06	ZZZZZZ	9636	53715	7348	3246
13:10	MA11028-CCV6	8434	47200	6611	2844
13:15	MA11028-CCB6	8998	50609	6745	3332
13:19	ZZZZZZ	10238	56459	8374	2731
13:23	ZZZZZZ	10561	58270	8458	2861

INTERNAL STANDARD SUMMARY

Login Number: FA7717
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB091013M1.ICP Date Analyzed: 09/10/13 Methods: SW846 6010C
Analyst: LM Run ID: MA11028
Parameters: Sb,Cd,Ca,Cr,Se,Na

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
13:27	MP25807-MB1	9174	52172	6979	3372
13:31	MP25807-B1	8803	49004	6932	3034
13:35	FA7632-1L	8781	48203	6892	2999
13:39	MP25807-D1	9027	50275	7374	3091
13:44	MP25807-SD1	No results reported for the elements associated with this internal standard.			
13:48	MP25807-S1	8896	50405	7599	2979
13:52	MP25807-S2	8948	50728	7684	3005
13:56	ZZZZZZ	8960	50885	7772	3080
14:00	MA11028-CCV7	8912	51265	7615	3023
14:05	MA11028-CCB7	9545	55740	7799	3555
14:09	ZZZZZZ	9030	50982	7751	3094
14:13	ZZZZZZ	9073	51437	7768	3123
14:17	MP25807-D2	9035	51576	7671	3107
14:21	MP25807-MB2	8953	50792	7698	3102
14:26	MP25807-B2	8809	49740	7579	2969
14:30	MP25807-SD1	9217	52684	7658	3294
14:34	MP25809-MB1	9319	53253	7663	3410
14:38	MP25809-B1	9054	51836	7624	3133
14:42	FA7930-10	9322	54467	7638	3369
14:46	MP25809-D1	9420	54825	7703	3401
14:50	MA11028-CCV8	8898	50735	7530	3005
14:54	MA11028-CCB8	9453	55055	7700	3522
15:02	MP25809-SD1	9450	54529	7508	3475
15:06	MP25809-PS1	9173	52646	7490	3220
15:10	MP25809-S1	8991	50967	7431	3054
15:14	MP25809-S2	8973	50973	7330	3037
15:18	MP25796-MB1	9448	54284	7570	3489
15:22	ZZZZZZ	9841	55749	7988	3249
15:26	ZZZZZZ	9420	53846	7495	3386
15:30	ZZZZZZ	9380	53077	7591	3239
15:34	ZZZZZZ	9461	53478	7662	3216
15:39	ZZZZZZ	9357	53851	7488	3368
15:43	MA11028-CCV9	8869	50382	7336	2990

INTERNAL STANDARD SUMMARY

Login Number: FA7717
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB091013M1.ICP Date Analyzed: 09/10/13 Methods: SW846 6010C
Analyst: LM Run ID: MA11028
Parameters: Sb,Cd,Ca,Cr,Se,Na

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
15:47	MA11028-CCB9	9440	54185	7467	3497
15:51	ZZZZZZ	9594	54611	7837	3343
15:55	ZZZZZZ	9434	54956	7746	3366
15:59	ZZZZZZ	9381	54658	7563	3388
16:03	ZZZZZZ	9618	54218	7850	3194
16:07	ZZZZZZ	9544	54565	7834	3313
16:11	ZZZZZZ	9439	52586	7671	3348
16:16	ZZZZZZ	9361	53425	7640	3369
16:20	ZZZZZZ	9477	52799	7656	3353
16:24	ZZZZZZ	9524	53344	7775	3264
16:28	ZZZZZZ	9463	53004	7775	3268
16:32	MA11028-CCV10	8931	50345	7563	2990
16:36	MA11028-CCB10	9431	53525	7607	3483
16:40	ZZZZZZ	9318	53684	7513	3399
16:45	ZZZZZZ	9155	55063	7520	3339
16:49	ZZZZZZ	9460	53898	7588	3270
16:53	ZZZZZZ	9353	53447	7589	3346
16:57	MA11028-CRIA2	9373	53886	7699	3379
17:01	MA11028-ICSA2	8144	44981	7211	2673
17:05	MA11028-ICSAB2	8074	44811	7094	2629
17:10	MA11028-CCV11	8816	50049	7323	2971
17:14	MA11028-CCB11	9352	53396	7421	3476

R = Reference for ISTD limits. ! = Outside limits.

LEGEND:

Istd#	Parameter	Limits
Istd#1	Yttrium (2243)	60-125 %
Istd#2	Yttrium (3600)	60-125 %
Istd#3	Yttrium (3710)	60-125 %
Istd#4	Indium	60-125 %

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: FA7717
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB091013M1.ICP Date Analyzed: 09/10/13 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA11028 Units: ug/l

Time: / Sample ID:			08:25 ICB1		09:02 CCB1		09:55 CCB2		10:46 CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	15	anr							
Antimony	6.0	1.3	2.0	<6.0	0.90	<6.0	-2.0	<6.0	-1.4	<6.0
Arsenic	10	1.6	anr							
Barium	200	1	anr							
Beryllium	4.0	.5	anr							
Cadmium	5.0	.5	-0.10	<5.0	0.10	<5.0	0.10	<5.0	0.10	<5.0
Calcium	1000	50	0.0	<1000	4.5	<1000	11.8	<1000	9.9	<1000
Chromium	10	1.8	0.10	<10	0.10	<10	0.10	<10	0.20	<10
Cobalt	50	.5								
Copper	25	1	anr							
Iron	300	29	anr							
Lead	5.0	1.1	anr							
Magnesium	5000	74	anr							
Manganese	15	.7								
Molybdenum	50	.6								
Nickel	40	.5	anr							
Potassium	10000	200	anr							
Selenium	10	2	0.40	<10	0.60	<10	0.80	<10	0.70	<10
Silver	10	.5	anr							
Sodium	10000	500	22.6	<10000	48.4	<10000	35.0	<10000	24.3	<10000
Strontium	10	.5								
Thallium	10	1.3	anr							
Tin	50	.7								
Titanium	10	.9								
Vanadium	50	.5								
Zinc	20	3	anr							

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: FA7717
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB091013M1.ICP Date Analyzed: 09/10/13 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA11028 Units: ug/l

Time: / Sample ID:			11:35 CCB4		12:24 CCB5		13:15 CCB6		14:05 CCB7	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	15	anr							
Antimony	6.0	1.3	-1.5	<6.0	-1.4	<6.0	-1.7	<6.0	-1.3	<6.0
Arsenic	10	1.6	anr							
Barium	200	1	anr							
Beryllium	4.0	.5	anr							
Cadmium	5.0	.5	0.0	<5.0	0.10	<5.0	0.0	<5.0	0.10	<5.0
Calcium	1000	50	10.6	<1000	8.2	<1000	5.6	<1000	13.0	<1000
Chromium	10	1.8	0.40	<10	0.30	<10	0.10	<10	0.30	<10
Cobalt	50	.5								
Copper	25	1	anr							
Iron	300	29	anr							
Lead	5.0	1.1	anr							
Magnesium	5000	74	anr							
Manganese	15	.7								
Molybdenum	50	.6								
Nickel	40	.5	anr							
Potassium	10000	200	anr							
Selenium	10	2	0.0	<10	1.8	<10	0.60	<10	0.90	<10
Silver	10	.5	anr							
Sodium	10000	500	44.6	<10000	103	<10000	37.0	<10000	150	<10000
Strontium	10	.5								
Thallium	10	1.3	anr							
Tin	50	.7								
Titanium	10	.9								
Vanadium	50	.5								
Zinc	20	3	anr							

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: FA7717
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB091013M1.ICP Date Analyzed: 09/10/13 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA11028 Units: ug/l

Time: / Sample ID:			14:54 CCB8		15:47 CCB9		16:36 CCB10		17:14 CCB11	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	15	anr							
Antimony	6.0	1.3	-2.3	<6.0	-1.7	<6.0	-2.8	<6.0	-2.1	<6.0
Arsenic	10	1.6	anr							
Barium	200	1	anr							
Beryllium	4.0	.5	anr							
Cadmium	5.0	.5	0.20	<5.0	0.10	<5.0	0.10	<5.0	0.10	<5.0
Calcium	1000	50	12.1	<1000	6.4	<1000	6.5	<1000	15.8	<1000
Chromium	10	1.8	0.0	<10	0.10	<10	0.10	<10	0.10	<10
Cobalt	50	.5								
Copper	25	1	anr							
Iron	300	29	anr							
Lead	5.0	1.1	anr							
Magnesium	5000	74	anr							
Manganese	15	.7								
Molybdenum	50	.6								
Nickel	40	.5	anr							
Potassium	10000	200	anr							
Selenium	10	2	0.70	<10	2.1	<10	1.6	<10	-0.90	<10
Silver	10	.5	anr							
Sodium	10000	500	93.3	<10000	46.3	<10000	43.0	<10000	61.5	<10000
Strontium	10	.5								
Thallium	10	1.3	anr							
Tin	50	.7								
Titanium	10	.9								
Vanadium	50	.5								
Zinc	20	3	anr							

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA7717
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB091013M1.ICP Date Analyzed: 09/10/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA11028 Units: ug/l

Time:		08:17			08:55			09:51	
Sample ID:	ICV	ICV1		CCV	CCV1		CCV	CCV2	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	2000	1970	98.5	2000	1960	98.0	2000	1960	98.0
Arsenic	anr								
Barium	anr								
Beryllium	anr								
Cadmium	2000	1980	99.0	2000	2000	100.0	2000	2010	100.5
Calcium	40000	40900	102.3	40000	41000	102.5	40000	40900	102.3
Chromium	2000	2000	100.0	2000	2010	100.5	2000	2010	100.5
Cobalt									
Copper	anr								
Iron	anr								
Lead	anr								
Magnesium	anr								
Manganese									
Molybdenum									
Nickel	anr								
Potassium	anr								
Selenium	2000	1990	99.5	2000	1970	98.5	2000	1960	98.0
Silver	anr								
Sodium	40000	41000	102.5	40000	40900	102.3	40000	40800	102.0
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium									
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA7717
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB091013M1.ICP Date Analyzed: 09/10/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA11028 Units: ug/l

Time:		10:42			11:31			12:20	
Sample ID:	CCV	CCV3		CCV	CCV4		CCV	CCV5	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	2000	2000	100.0	2000	1990	99.5	2000	2020	101.0
Arsenic	anr								
Barium	anr								
Beryllium	anr								
Cadmium	2000	1990	99.5	2000	2010	100.5	2000	2030	101.5
Calcium	40000	40700	101.8	40000	41100	102.8	40000	40800	102.0
Chromium	2000	2000	100.0	2000	2030	101.5	2000	2020	101.0
Cobalt									
Copper	anr								
Iron	anr								
Lead	anr								
Magnesium	anr								
Manganese									
Molybdenum									
Nickel	anr								
Potassium	anr								
Selenium	2000	2000	100.0	2000	1990	99.5	2000	2010	100.5
Silver	anr								
Sodium	40000	40300	100.8	40000	41100	102.8	40000	41400	103.5
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium									
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA7717
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB091013M1.ICP Date Analyzed: 09/10/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA11028 Units: ug/l

Time:		13:10			14:00			14:50	
Sample ID:	CCV	CCV6		CCV	CCV7		CCV	CCV8	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	2000	2010	100.5	2000	2020	101.0	2000	2030	101.5
Arsenic	anr								
Barium	anr								
Beryllium	anr								
Cadmium	2000	2030	101.5	2000	1980	99.0	2000	2010	100.5
Calcium	40000	41400	103.5	40000	39900	99.8	40000	40500	101.3
Chromium	2000	2030	101.5	2000	1950	97.5	2000	1990	99.5
Cobalt									
Copper	anr								
Iron	anr								
Lead	anr								
Magnesium	anr								
Manganese									
Molybdenum									
Nickel	anr								
Potassium	anr								
Selenium	2000	2010	100.5	2000	2010	100.5	2000	2030	101.5
Silver	anr								
Sodium	40000	41900	104.8	40000	40600	101.5	40000	41100	102.8
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium									
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA7717
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB091013M1.ICP Date Analyzed: 09/10/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA11028 Units: ug/l

Time:		15:43			16:32			17:10	
Sample ID:	CCV	CCV9		CCV	CCV10		CCV	CCV11	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	2000	2010	100.5	2000	1990	99.5	2000	2000	100.0
Arsenic	anr								
Barium	anr								
Beryllium	anr								
Cadmium	2000	2000	100.0	2000	1980	99.0	2000	2000	100.0
Calcium	40000	40700	101.8	40000	40800	102.0	40000	40400	101.0
Chromium	2000	2000	100.0	2000	1970	98.5	2000	1980	99.0
Cobalt									
Copper	anr								
Iron	anr								
Lead	anr								
Magnesium	anr								
Manganese									
Molybdenum									
Nickel	anr								
Potassium	anr								
Selenium	2000	2000	100.0	2000	1980	99.0	2000	2000	100.0
Silver	anr								
Sodium	40000	41500	103.8	40000	39600	99.0	40000	40800	102.0
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium									
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

HIGH STANDARD CHECK SUMMARY

Login Number: FA7717
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB091013M1.ICP Date Analyzed: 09/10/13 Methods: SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA11028 Units: ug/l

Time:		08:10	
Sample ID:	HSTD	HSTD1	
Metal	True	Results	% Rec
Aluminum	anr		
Antimony	4000	4070	101.8
Arsenic	anr		
Barium	anr		
Beryllium	anr		
Cadmium	4000	3990	99.8
Calcium	80000	79100	98.9
Chromium	4000	3970	99.3
Cobalt			
Copper	anr		
Iron	anr		
Lead	anr		
Magnesium	anr		
Manganese			
Molybdenum			
Nickel	anr		
Potassium	anr		
Selenium	4000	4060	101.5
Silver	anr		
Sodium	80000	79000	98.8
Strontium			
Thallium	anr		
Tin			
Titanium			
Vanadium			
Zinc	anr		

(*) Outside of QC limits
(anr) Analyte not requested

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: FA7717
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB091013M1.ICP Date Analyzed: 09/10/13 Methods: SW846 6010C
QC Limits: CRI 70-130% CRIA 70-130% Run ID: MA11028 Units: ug/l

Time:			08:30		16:57	
Sample ID:	CRI	CRIA	CRIA1		CRIA2	
Metal	True	True	Results	% Rec	Results	% Rec
Aluminum	400	200	anr			
Antimony	10	5.0	5.1	102.0	1.2U	0.0* (a)
Arsenic	20	10	anr			
Barium	400	200	anr			
Beryllium	10	5.0	anr			
Cadmium	10	5.0	4.9	98.0	4.9	98.0
Calcium	2000	1000	1010	101.0	986	98.6
Chromium	20	10	9.6	96.0	9.5	95.0
Cobalt	100	50				
Copper	50	25	anr			
Iron	600	300	anr			
Lead	10	5.0	anr			
Magnesium	10000	5000	anr			
Manganese	30	15				
Molybdenum	100	50				
Nickel	80	40	anr			
Potassium	20000	10000	anr			
Selenium	20	10	10.4	104.0	10.6	106.0
Silver	20	10	anr			
Sodium	20000	10000	9910	99.1	9860	98.6
Strontium	20	10				
Thallium	20	10	anr			
Tin	100	50				
Titanium	20	10				
Vanadium	100	50				
Zinc	40	20	anr			

(*) Outside of QC limits
(anr) Analyte not requested
(a) Possible instrument baseline drift.

INTERFERING ELEMENT CHECK STANDARDS SUMMARY
Part 1 - ICSA and ICSAB Standards

Login Number: FA7717
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB091013M1.ICP Date Analyzed: 09/10/13 Methods: SW846 6010C
QC Limits: 80 to 120 % Recovery Run ID: MA11028 Units: ug/l

Time:			08:37		08:45		17:01		17:05	
Sample ID:	ICSA	ICSAB	ICSA1		ICSAB1		ICSA2		ICSAB2	
Metal	True	True	Results	% Rec	Results	% Rec	Results	% Rec	Results	% Rec
Aluminum	500000	500000	515000	103.0	496000	99.2	510000	102.0	504000	100.8
Antimony		1000	1.2		980	98.0	-1.1		1010	101.0
Arsenic		1000	0.10		1010	101.0	-0.60		1020	102.0
Barium		500	-0.40		511	102.2	-0.30		530	106.0
Beryllium		500	0.0		488	97.6	0.0		489	97.8
Cadmium		1000	0.40		921	92.1	0.80		912	91.2
Calcium	500000	500000	481000	96.2	484000	96.8	473000	94.6	477000	95.4
Chromium		500	0.10		475	95.0	0.10		467	93.4
Cobalt		500	-0.10		455	91.0	-0.10		454	90.8
Copper		500	0.0		508	101.6	0.10		516	103.2
Iron	200000	200000	189000	94.5	188000	94.0	184000	92.0	185000	92.5
Lead		1000	0.0		927	92.7	-6.7		906	90.6
Magnesium	500000	500000	480000	96.0	475000	95.0	462000	92.4	462000	92.4
Manganese		500	0.10		498	99.6	0.20		461	92.2
Molybdenum		1000	0.50		944	94.4	0.30		942	94.2
Nickel		1000	0.10		902	90.2	0.20		901	90.1
Potassium			83.3		28.3		47.2		38.8	
Selenium		1000	0.80		964	96.4	-2.5		975	97.5
Silver		1000	0.30		965	96.5	-0.10		967	96.7
Sodium			187		167		163		157	
Strontium		1000	12.2		1010	101.0	12.4		1050	105.0
Thallium		1000	-0.50		942	94.2	-0.10		931	93.1
Tin		1000	-0.40		915	91.5	-0.70		901	90.1
Titanium		1000	-5.0		979	97.9	-5.6		997	99.7
Vanadium		500	0.60		476	95.2	0.10		473	94.6
Zinc		1000	0.0		924	92.4	-1.1		899	89.9

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: FA7717
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

QC Batch ID: MP25796
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date:				09/09/13		09/09/13	
Metal	RL	IDL	MDL	MB raw	final	MB raw	final
Aluminum	200	15	15	27.5	<200	-0.40	<200
Antimony	6.0	1.3	1.3	-3.1	<6.0	-2.7	<6.0
Arsenic	10	1.6	2.5	0.40	<10	0.10	<10
Barium	200	1	1				
Beryllium	4.0	.5	.5				
Cadmium	5.0	.5	.5	0.30	<5.0	0.0	<5.0
Calcium	1000	50	50	325	<1000	22.2	<1000
Chromium	10	1.8	2	0.30	<10	0.10	<10
Cobalt	50	.5	.5				
Copper	25	1	1				
Iron	300	29	29	32.4	<300	-4.8	<300
Lead	5.0	1.1	1.1				
Magnesium	5000	74	74	28.2	<5000	-1.9	<5000
Manganese	15	.7	.7				
Molybdenum	50	.6	1				
Nickel	40	.5	.5				
Potassium	10000	200	200	14.8	<10000	-13	<10000
Selenium	10	2	2	-0.20	<10	0.90	<10
Silver	10	.5	.5				
Sodium	10000	500	500	54.4	<10000	-0.10	<10000
Strontium	10	.5	.5				
Thallium	10	1.3	1.3				
Tin	50	.7	1.8				
Titanium	10	.9	1				
Vanadium	50	.5	1				
Zinc	20	3	5				

Associated samples MP25796: FA7717-1, FA7717-2, FA7717-3, FA7717-4

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FA7717
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

QC Batch ID: MP25796
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date:			09/09/13					09/09/13	
Metal	FA7918-1 Original	DUP	RPD	QC Limits	FA7918-1 Original	MS	Spikelot MPFLICP2	% Rec	QC Limits
Aluminum	29.8	41.5	32.8 (a)	0-20	29.8	27500	27000	101.7	80-120
Antimony	0.0	0.0	NC	0-20	0.0	502	500	100.4	80-120
Arsenic	8.9	7.7	14.5	0-20	8.9	2040	2000	101.6	80-120
Barium	anr								
Beryllium									
Cadmium	0.0	0.0	NC	0-20	0.0	49.7	50	99.4	80-120
Calcium	96400	92300	4.3	0-20	96400	117000	25000	82.4	80-120
Chromium	0.0	0.0	NC	0-20	0.0	209	200	104.5	80-120
Cobalt									
Copper									
Iron	31500	30000	4.9	0-20	31500	57200	26000	98.8	80-120
Lead	anr								
Magnesium	7220	6960	3.7	0-20	7220	32000	25000	99.1	80-120
Manganese									
Molybdenum									
Nickel									
Potassium	3790	3610	4.9	0-20	3790	30500	25000	106.8	80-120
Selenium	0.0	0.0	NC	0-20	0.0	2020	2000	101.0	80-120
Silver	anr								
Sodium	15700	15000	4.6	0-20	15700	40000	25000	97.2	80-120
Strontium									
Thallium									
Tin									
Titanium									
Vanadium									
Zinc									

Associated samples MP25796: FA7717-1, FA7717-2, FA7717-3, FA7717-4

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) RPD acceptable due to low duplicate and sample concentrations.

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FA7717
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

QC Batch ID: MP25796
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 09/09/13

Metal	FA7918-1 Original	MSD	Spikelot MPFLICP2	% Rec	MSD RPD	QC Limit
Aluminum	29.8	28000	27000	103.6	1.8	20
Antimony	0.0	510	500	102.0	1.6	20
Arsenic	8.9	2070	2000	103.1	1.5	20
Barium	anr					
Beryllium						
Cadmium	0.0	50.8	50	101.6	2.2	20
Calcium	96400	117000	25000	82.4	0.0	20
Chromium	0.0	213	200	106.5	1.9	20
Cobalt						
Copper						
Iron	31500	57500	26000	100.0	0.5	20
Lead	anr					
Magnesium	7220	32600	25000	101.5	1.9	20
Manganese						
Molybdenum						
Nickel						
Potassium	3790	31100	25000	109.2	1.9	20
Selenium	0.0	2050	2000	102.5	1.5	20
Silver	anr					
Sodium	15700	40400	25000	98.8	1.0	20
Strontium						
Thallium						
Tin						
Titanium						
Vanadium						
Zinc						

Associated samples MP25796: FA7717-1, FA7717-2, FA7717-3, FA7717-4

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: FA7717
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

QC Batch ID: MP25796
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 09/09/13

Metal	BSP Result	Spikelot MPFLICP2	% Rec	QC Limits
Aluminum	28300	27000	104.8	80-120
Antimony	509	500	101.8	80-120
Arsenic	2050	2000	102.5	80-120
Barium	anr			
Beryllium				
Cadmium	51.8	50	103.6	80-120
Calcium	26900	25000	107.6	80-120
Chromium	214	200	107.0	80-120
Cobalt				
Copper				
Iron	28500	26000	109.6	80-120
Lead	anr			
Magnesium	26700	25000	106.8	80-120
Manganese				
Molybdenum				
Nickel				
Potassium	27700	25000	110.8	80-120
Selenium	2040	2000	102.0	80-120
Silver	anr			
Sodium	26400	25000	105.6	80-120
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc				

Associated samples MP25796: FA7717-1, FA7717-2, FA7717-3, FA7717-4

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: FA7717
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

QC Batch ID: MP25796
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 09/09/13

Metal	FA7918-1 Original	SDL 1:5	%DIF	QC Limits
Aluminum	29.8	0.00	100.0(a)	0-10
Antimony	0.00	0.00	NC	0-10
Arsenic	8.90	8.40	5.6	0-10
Barium	anr			
Beryllium				
Cadmium	0.00	0.00	NC	0-10
Calcium	96400	90100	6.5	0-10
Chromium	0.00	0.00	NC	0-10
Cobalt				
Copper				
Iron	31500	29600	5.9	0-10
Lead	anr			
Magnesium	7220	6960	3.7	0-10
Manganese				
Molybdenum				
Nickel				
Potassium	3790	3310	12.7 (a)	0-10
Selenium	0.00	0.00	NC	0-10
Silver	anr			
Sodium	15700	14500	7.4	0-10
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc				

Associated samples MP25796: FA7717-1, FA7717-2, FA7717-3, FA7717-4

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

POST DIGESTATE SPIKE SUMMARY

Login Number: FA7717
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

QC Batch ID: MP25796
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 09/09/13

Metal	Sample ml	Final ml	FA7918-1 Raw	Corr.**	PS ug/l	Spike ml	Spike ug/ml	Spike ug/l	% Rec	QC Limits
Aluminum	9.8	10	29.8	29.204	2593	0.2	125	2500	102.6	80-120
Antimony	9.8	10			98.8	0.2	5	100	98.8	80-120
Arsenic	9.8	10	8.9	8.722	111.5	0.2	5	100	102.8	80-120
Barium										
Beryllium										
Cadmium	9.8	10			50.8	0.2	2.5	50	101.6	80-120
Calcium	9.8	10	96400	94472	98280	0.2	250	5000	76.2*(a)	80-120
Chromium	9.8	10			53.1	0.2	2.5	50	106.2	80-120
Cobalt										
Copper										
Iron	9.8	10	31470	30840.6	33370	0.2	150	3000	84.3	80-120
Lead										
Magnesium	9.8	10	7224	7079.52	11800	0.2	250	5000	94.4	80-120
Manganese										
Molybdenum										
Nickel										
Potassium	9.8	10	3792	3716.16	14130	0.2	500	10000	104.1	80-120
Selenium	9.8	10			101.2	0.2	5	100	101.2	80-120
Silver										
Sodium	9.8	10	15690	15376.2	25520	0.2	500	10000	101.4	80-120
Strontium										
Thallium										
Tin										
Titanium										
Vanadium										
Zinc										

Associated samples MP25796: FA7717-1, FA7717-2, FA7717-3, FA7717-4

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(**) Corr. sample result = Raw * (sample volume / final volume)
(anr) Analyte not requested
(a) Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

Southeast ACCUTEST LABORATORIES

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries
- Instrument Runlogs/QC

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: FA7717
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Alkalinity, Total as CaCO3	GN57564	5.0	1.0	mg/l	250	254	102.0	90-113%
Alkalinity, Total as CaCO3	GN57634	25	0.0	mg/l	250	260	104.0	90-113%
Chloride	GP22396/GN57503	2.0	0.0	mg/l	50	50.3	100.6	90-110%
Fluoride	GP22429/GN57593	0.20	0.0	mg/l	2.5	2.35	94.0	90-110%
Nitrogen, Nitrate	GP22396/GN57503	0.10	0.0	mg/l	2.5	2.62	104.8	90-110%
Nitrogen, Nitrite	GP22396/GN57503	0.10	0.0	mg/l	2.5	2.59	103.6	90-110%
Phosphate, Ortho	GP22405/GN57526	0.10	0.0	mg/l	0.300	0.28	94.4	83-116%
Phosphorus, Total	GP22407/GN57536	0.10	0.0	mg/l	.300	0.31	105.0	81-118%
Phosphorus, Total	GP22431/GN57591	0.10	0.0	mg/l	.300	0.28	93.0	81-118%
Solids, Total Dissolved	GN57475	100	15.0	mg/l				
Solids, Total Dissolved	GN57508	100	13.0	mg/l				
Specific Conductivity	GN57496	1.0	0.0	umhos/cm				
Sulfate	GP22396/GN57503	2.0	0.0	mg/l	50	50.5	101.0	90-110%

Associated Samples:
Batch GN57475: FA7717-1
Batch GN57496: FA7717-1, FA7717-2, FA7717-3, FA7717-4
Batch GN57497: FA7717-1, FA7717-2, FA7717-3, FA7717-4
Batch GN57508: FA7717-2, FA7717-3, FA7717-4
Batch GN57564: FA7717-3
Batch GN57634: FA7717-1, FA7717-2, FA7717-4
Batch GP22396: FA7717-1, FA7717-2, FA7717-3, FA7717-4
Batch GP22405: FA7717-1F, FA7717-2F, FA7717-3F, FA7717-4F
Batch GP22407: FA7717-1, FA7717-2
Batch GP22429: FA7717-1, FA7717-2, FA7717-3, FA7717-4
Batch GP22431: FA7717-3, FA7717-4
(*) Outside of QC limits

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: FA7717
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Alkalinity, Total as CaCO3	GN57564	FA7717-3	mg/l	61.0	60.5	0.8	0-20%
Alkalinity, Total as CaCO3	GN57634	FA7621-1	mg/l	938	935	0.1	0-20%
Solids, Total Dissolved	GN57475	FA7660-5	mg/l	345	345	0.0	0-5%
Solids, Total Dissolved	GN57508	FA7725-7	mg/l	174	176	1.1	0-5%
Specific Conductivity	GN57496	FA7717-1	umhos/cm	5500	5500	0.2	0-10%
pH	GN57497	FA7718-5	su	5.60	5.58	0.2	0-10%

Associated Samples:
Batch GN57475: FA7717-1
Batch GN57496: FA7717-1, FA7717-2, FA7717-3, FA7717-4
Batch GN57497: FA7717-1, FA7717-2, FA7717-3, FA7717-4
Batch GN57508: FA7717-2, FA7717-3, FA7717-4
Batch GN57564: FA7717-3
Batch GN57634: FA7717-1, FA7717-2, FA7717-4
(*) Outside of QC limits

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: FA7717
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Chloride	GP22396/GN57503	FA7705-2	mg/l	29.1	50	76.8	95.4	90-110%
Fluoride	GP22429/GN57593	FA7717-2	mg/l	1.5 U	2.5	2.6	104.0	90-110%
Nitrogen, Nitrate	GP22396/GN57503	FA7705-2	mg/l	0.050 U	2.5	2.6	104.0	90-110%
Nitrogen, Nitrite	GP22396/GN57503	FA7705-2	mg/l	0.050 U	2.5	2.6	104.0	90-110%
Phosphate, Ortho	GP22405/GN57526	FA7717-4F	mg/l	0.13	0.300	0.30	56.8*(a)	83-116%
Phosphorus, Total	GP22407/GN57536	FA7668-8	mg/l	0.040	.300	0.32	93.2	81-118%
Phosphorus, Total	GP22431/GN57591	FA7856-5	mg/l	0.047	.300mg/l	0.39	113.0	81-118%
Sulfate	GP22396/GN57503	FA7705-2	mg/l	0.60 U	50	49.1	98.2	90-110%

Associated Samples:
Batch GP22396: FA7717-1, FA7717-2, FA7717-3, FA7717-4
Batch GP22405: FA7717-1F, FA7717-2F, FA7717-3F, FA7717-4F
Batch GP22407: FA7717-1, FA7717-2
Batch GP22429: FA7717-1, FA7717-2, FA7717-3, FA7717-4
Batch GP22431: FA7717-3, FA7717-4
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(a) Spike recovery indicates possible matrix interference.

MATRIX SPIKE DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: FA7717
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MSD Result	RPD	QC Limit
Chloride	GP22396/GN57503	FA7705-2	mg/l	29.1	50	78.9	2.7	20%
Fluoride	GP22429/GN57593	FA7717-2	mg/l	1.5 U	2.5	2.8	7.4	20%
Nitrogen, Nitrate	GP22396/GN57503	FA7705-2	mg/l	0.050 U	2.5	2.6	0.0	20%
Nitrogen, Nitrite	GP22396/GN57503	FA7705-2	mg/l	0.050 U	2.5	2.6	0.0	20%
Phosphate, Ortho	GP22405/GN57526	FA7717-4F	mg/l	0.13	0.300	0.305	1.2	26%
Phosphorus, Total	GP22407/GN57536	FA7668-8	mg/l	0.040	.300	0.318	0.7	22%
Phosphorus, Total	GP22431/GN57591	FA7856-5	mg/l	0.047	.300	0.400	3.3	22%
Sulfate	GP22396/GN57503	FA7705-2	mg/l	0.60 U	50	49.1	0.0	20%

Associated Samples:
Batch GP22396: FA7717-1, FA7717-2, FA7717-3, FA7717-4
Batch GP22405: FA7717-1F, FA7717-2F, FA7717-3F, FA7717-4F
Batch GP22407: FA7717-1, FA7717-2
Batch GP22429: FA7717-1, FA7717-2, FA7717-3, FA7717-4
Batch GP22431: FA7717-3, FA7717-4
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA7717
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: 313300801.TXT Date Analyzed: 08/30/13 Methods: EPA 300/SW846 9056A
Analyst: AA Run ID: GN57503
Parameters: Chloride,Nitrogen, Nitrate,Sulfate

Time	Sample Description	Dilution Factor	PS Recov	Comments
08:52	GN57503-CCV1	1		
09:07	GP22396-MB1	1		
09:23	GP22396-B1	1		
10:29	ZZZZZZ	1		
10:45	FA7705-2	1		(sample used for QC only; not part of login FA7717)
11:01	FA7705-3	1		(sample used for QC only; not part of login FA7717)
11:29	FA7717-1	25		
11:45	FA7717-2	25		
12:00	FA7717-3	25		
12:16	GN57503-CCV2	1		
12:32	GN57503-CCB1	1		
12:48	FA7717-4	25		
13:04	ZZZZZZ	2		
13:20	ZZZZZZ	5		
13:36	ZZZZZZ	2		
13:52	ZZZZZZ	2		
14:08	ZZZZZZ	2		
14:24	ZZZZZZ	2		
14:40	ZZZZZZ	2		
14:56	ZZZZZZ	2		
15:11	ZZZZZZ	100		
15:27	GN57503-CCV3	1		
15:43	GN57503-CCB2	1		
15:59	ZZZZZZ	25		
16:15	ZZZZZZ	5		
16:31	ZZZZZZ	1		
16:47	ZZZZZZ	10		
17:03	GP22396-S1	1		
17:19	GP22396-S2	1		
17:35	GP22396-S3	1		
17:51	GP22396-S4	1		
18:07	FA7717-3	50		
18:23	FA7717-4	50		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA7717
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: 313300801.TXT Date Analyzed: 08/30/13 Methods: EPA 300/SW846 9056A
Analyst: AA Run ID: GN57503
Parameters: Chloride,Nitrogen, Nitrate,Sulfate

Time	Sample Description	Dilution Factor	PS Recov	Comments
18:38	GN57503-CCV4	1		
18:54	GP22397-MB1	1		
19:10	GP22397-B1	1		
19:26	ZZZZZZ	1		
19:42	ZZZZZZ	2		
19:58	ZZZZZZ	1		
20:14	FA7752-1	1		(sample used for QC only; not part of login FA7717)
20:30	ZZZZZZ	5		
20:46	FA7752-3	5		(sample used for QC only; not part of login FA7717)
21:02	ZZZZZZ	10		
21:18	ZZZZZZ	1		
21:34	GN57503-CCV5	1		
21:49	GN57503-CCB3	1		
22:05	ZZZZZZ	2		
22:21	ZZZZZZ	5		
22:37	ZZZZZZ	10		
22:53	ZZZZZZ	5		
23:09	ZZZZZZ	10		
23:25	FA7752-11	1		(sample used for QC only; not part of login FA7717)
23:41	ZZZZZZ	5		
23:57	ZZZZZZ	1		
00:13	GP22397-S1	1		
00:29	GP22397-S2	1		
00:45	GN57503-CCV6	1		
01:00	GN57503-CCB4	1		
01:16	GP22397-S3	1		
01:32	GP22397-S4	1		
01:48	GN57503-CCV7	1		
02:04	GP22371-MB1	1		
02:20	GP22371-B1	1		
02:36	FA7577-1	5		(sample used for QC only; not part of login FA7717)
02:52	GP22371-S1	5		
03:08	GP22371-S2	5		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA7717
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: 313300801.TXT Date Analyzed: 08/30/13 Methods: EPA 300/SW846 9056A
Analyst: AA Run ID: GN57503
Parameters: Chloride,Nitrogen, Nitrate,Sulfate

Time	Sample Description	Dilution Factor	PS Recov	Comments
03:40	GN57503-CCV8	1		
03:56	GN57503-CCB5	1		

Refer to raw data for calibration curve and standards.

Instrument QC Summary
Inorganics Analyses

Login Number: FA7717
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: 313300801.TXT Date Analyzed: 08/30/13 Methods: EPA 300/SW846 9056A
Run ID: GN57503 Units: mg/l

Sample Number	Parameter	Result	RL	IDL/MDL	True Value	% Recov.	QC Limits
GN57503-CCV1	Chloride	50.0	2.0	0.80	50	100.0	90-110
GN57503-CCV1	Nitrogen, Nitrate	2.6	0.10	0.050	2.5	104.0	90-110
GN57503-CCV1	Sulfate	50.0	2.0	0.60	50	100.0	90-110
GN57503-CCV2	Chloride	50.3	2.0	0.80	50	100.6	90-110
GN57503-CCV2	Nitrogen, Nitrate	2.6	0.10	0.050	2.5	104.0	90-110
GN57503-CCV2	Sulfate	49.9	2.0	0.60	50	99.8	90-110
GN57503-CCB1	Chloride	0.80 U	2.0	0.80			
GN57503-CCB1	Nitrogen, Nitrate	0.050 U	0.10	0.050			
GN57503-CCB1	Sulfate	0.60 U	2.0	0.60			
GN57503-CCV3	Chloride	50.0	2.0	0.80	50	100.0	90-110
GN57503-CCV3	Nitrogen, Nitrate	2.6	0.10	0.050	2.5	104.0	90-110
GN57503-CCV3	Sulfate	49.9	2.0	0.60	50	99.8	90-110
GN57503-CCB2	Chloride	0.80 U	2.0	0.80			
GN57503-CCB2	Nitrogen, Nitrate	0.050 U	0.10	0.050			
GN57503-CCB2	Sulfate	0.60 U	2.0	0.60			
GN57503-CCV4	Chloride	50.1	2.0	0.80	50	100.2	90-110
GN57503-CCV4	Nitrogen, Nitrate	2.6	0.10	0.050	2.5	104.0	90-110
GN57503-CCV4	Sulfate	49.8	2.0	0.60	50	99.6	90-110
GN57503-CCV5	Chloride	50.1	2.0	0.80	50	100.2	90-110
GN57503-CCV5	Nitrogen, Nitrate	2.6	0.10	0.050	2.5	104.0	90-110
GN57503-CCV5	Sulfate	49.7	2.0	0.60	50	99.4	90-110
GN57503-CCB3	Chloride	0.80 U	2.0	0.80			
GN57503-CCB3	Nitrogen, Nitrate	0.050 U	0.10	0.050			
GN57503-CCB3	Sulfate	0.60 U	2.0	0.60			
GN57503-CCV6	Chloride	50.1	2.0	0.80	50	100.2	90-110
GN57503-CCV6	Nitrogen, Nitrate	2.6	0.10	0.050	2.5	104.0	90-110
GN57503-CCV6	Sulfate	49.8	2.0	0.60	50	99.6	90-110
GN57503-CCB4	Chloride	0.80 U	2.0	0.80			
GN57503-CCB4	Nitrogen, Nitrate	0.050 U	0.10	0.050			
GN57503-CCB4	Sulfate	0.60 U	2.0	0.60			
GN57503-CCV7	Chloride	50.2	2.0	0.80	50	100.4	90-110
GN57503-CCV7	Nitrogen, Nitrate	2.6	0.10	0.050	2.5	104.0	90-110
GN57503-CCV7	Sulfate	49.9	2.0	0.60	50	99.8	90-110
GN57503-CCV8	Chloride	50.2	2.0	0.80	50	100.4	90-110
GN57503-CCV8	Nitrogen, Nitrate	2.6	0.10	0.050	2.5	104.0	90-110
GN57503-CCV8	Sulfate	50.1	2.0	0.60	50	100.2	90-110
GN57503-CCB5	Chloride	0.80 U	2.0	0.80			
GN57503-CCB5	Nitrogen, Nitrate	0.050 U	0.10	0.050			
GN57503-CCB5	Sulfate	0.60 U	2.0	0.60			

(!) Outside of QC limits

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA7717
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: 213090901.TXT Date Analyzed: 09/09/13 Methods: EPA 300/SW846 9056A
Analyst: AA Run ID: GN57593
Parameters: Fluoride

Time	Sample Description	Dilution Factor	PS Recov	Comments
09:22	GN57593-CCV1	1		
09:38	GP22429-MB1	1		
10:52	GP22429-B1	1		
11:09	ZZZZZZ	1		
11:26	FA7814-1	5		(sample used for QC only; not part of login FA7717)
11:43	ZZZZZZ	2000		
12:00	FA7717-1	25		
12:17	FA7717-2	25		
12:34	FA7717-3	25		
12:51	FA7717-4	25		
13:08	ZZZZZZ	1		
13:24	GN57593-CCV2	1		
13:41	GN57593-CCB1	1		
13:58	ZZZZZZ	25		
14:15	ZZZZZZ	5		
14:32	ZZZZZZ	2000		
14:49	ZZZZZZ	10		
15:06	GP22429-S1	5		
15:23	GP22429-S2	5		
15:40	GP22429-S3	25		
15:57	GP22429-S4	25		
16:14	GN57593-CCV3	1		
16:31	GN57593-CCB2	1		

Refer to raw data for calibration curve and standards.

Instrument QC Summary
Inorganics Analyses

Login Number: FA7717
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: 213090901.TXT Date Analyzed: 09/09/13 Methods: EPA 300/SW846 9056A
Run ID: GN57593 Units: mg/l

Sample Number	Parameter	Result	RL	IDL/MDL	True Value	% Recov.	QC Limits
GN57593-CCV1	Fluoride	2.3	0.20	0.060	2.5	92.0	90-110
GN57593-CCV2	Fluoride	2.6	0.20	0.060	2.5	104.0	90-110
GN57593-CCB1	Fluoride	0.060 U	0.20	0.060			
GN57593-CCV3	Fluoride	2.6	0.20	0.060	2.5	104.0	90-110
GN57593-CCB2	Fluoride	0.060 U	0.20	0.060			

(!) Outside of QC limits

Southeast
ACCUTEST LABORATORIES

09/13/13

Technical Report for

WSP Environment & Energy

Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID 36785.01

Accutest Job Number: FA7718

Sampling Date: 08/29/13

Report to:

WSP Environment & Energy
205 West Park Street
Jackson, MO 63755
tim.huff@wspgroup.com

ATTN: Tim Huff

Total number of pages in report: **109**

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Harry Behzadi, Ph.D.
Laboratory Director

Client Service contact: Andrea Colby 407-425-6700

Certifications: FL (E83510), LA (03051), KS (E-10327), IA (366), IL (200063), NC (573), NJ (FL002), SC (96038001) DoD ELAP (L-A-B L2229), CA (04226CA), TX (T104704404), AK, AR, GA, KY, MA, NV, OK, UT, VA, WA, WI

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Sample Summary

WSP Environment & Energy

Job No: FA7718

Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID
Project No: 36785.01

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA7718-1	08/29/13	10:55	TP	08/30/13	AQ	Ground Water	A-34-022
FA7718-1F	08/29/13	10:55	TP	08/30/13	AQ	Groundwater Filtered	A-34-022
FA7718-2	08/29/13	09:45	TP	08/30/13	AQ	Ground Water	MWA-110
FA7718-2F	08/29/13	09:45	TP	08/30/13	AQ	Groundwater Filtered	MWA-110
FA7718-3	08/29/13	11:10	TP	08/30/13	AQ	Ground Water	MWB-120
FA7718-3F	08/29/13	11:10	TP	08/30/13	AQ	Groundwater Filtered	MWB-120
FA7718-4	08/29/13	12:00	TP	08/30/13	AQ	Equipment Blank	EB08292013
FA7718-4F	08/29/13	12:00	TP	08/30/13	AQ	Equip Blank Filtered	EB08292013
FA7718-5	08/29/13	12:25	TP	08/30/13	AQ	Ground Water	NW-9
FA7718-5F	08/29/13	12:25	TP	08/30/13	AQ	Groundwater Filtered	NW-9

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: WSP Environment & Energy **Job No:** FA7718

Site: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID **Report Date:** 9/12/2013 4:06:52 PM

6 Sample(s) were collected on 08/29/2013 and were received at Accutest SE on 08/30/2013 properly preserved, at 3.2 Deg. C and intact. These Samples received an Accutest job number of FA7718. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Metals By Method SW846 6010C

Matrix: AQ **Batch ID:** MP25796

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA7918-1DUP, FA7918-1MS, FA7918-1MSD, FA7918-1PS, FA7918-1SDL were used as the QC samples for metals.

RPD(s) for Duplicate for Aluminum are outside control limits for sample MP25796-D1. RPD acceptable due to low duplicate and sample concentrations.

RPD(s) for Serial Dilution for Aluminum, Potassium are outside control limits for sample MP25796-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

MP25796-PS1 for Calcium: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

FA7718-1 for Calcium: Elevated reporting limit(s) due to matrix interference.

FA7718-1 for Selenium: Elevated reporting limit(s) due to matrix interference.

FA7718-1 for Chromium: Elevated reporting limit(s) due to matrix interference.

FA7718-1 for Arsenic: Elevated reporting limit(s) due to matrix interference.

FA7718-1 for Cadmium: Elevated reporting limit(s) due to matrix interference.
FA7718-1 for Antimony: Elevated reporting limit(s) due to matrix interference.

Matrix: AQ **Batch ID:** MP25802

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA7752-3FDUP, FA7752-3FMS, FA7752-3FMSD, FA7752-3FPS, FA7752-3FSDL were used as the QC samples for metals.

Matrix Spike Recovery(s) for Calcium are outside control limits. Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

RPD(s) for Serial Dilution for Aluminum, Arsenic are outside control limits for sample MP25802-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Wet Chemistry By Method EPA 120.1

Matrix: AQ **Batch ID:** GN57496

All method blanks for this batch meet method specific criteria.

Sample(s) FA7717-1DUP was used as the QC sample for Specific Conductivity.

The following samples were run outside of holding time for method EPA 120.1: FA7718-1, FA7718-2.

Wet Chemistry By Method EPA 300/SW846 9056A

Matrix: AQ **Batch ID:** GP22396

All samples were prepped within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA7705-2MS, FA7705-2MSD were used as the QC samples for Chloride, Nitrogen, Nitrate, Sulfate.

FA7718-1 for Chloride: Dilution required due to matrix interference.

FA7718-1 for Nitrogen, Nitrate: Dilution required due to matrix interference.

FA7718-2 for Nitrogen, Nitrate: Originally ran on GN57503. Re-run on dilution beyond holdtime.

Matrix: AQ **Batch ID:** GP22429

All samples were prepped within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA7717-2MS, FA7717-2MSD were used as the QC samples for Fluoride.

Wet Chemistry By Method EPA 365.3

Matrix: AQ **Batch ID:** GP22405

All samples were prepped within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA7717-4FMSD, FA7717-4FMS were used as the QC samples for Phosphate, Ortho.

Matrix Spike Recovery(s) for Phosphate, Ortho are outside control limits. Spike recovery indicates possible matrix interference. For method performance in a clean matrix, refer to Blank Spike.

Matrix: AQ **Batch ID:** GP22431

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA7856-5MS, FA7856-5MSD were used as the QC samples for Phosphorus, Total.

Wet Chemistry By Method SM 4500H B/SW 9040C

Matrix: AQ **Batch ID:** GN57497

Sample(s) FA7718-5DUP was used as the QC sample for pH.

FA7718-1 for pH: Field analysis required. Received out of hold time and analyzed by request.

FA7718-2 for pH: Field analysis required. Received out of hold time and analyzed by request.

FA7718-3 for pH: Field analysis required. Received out of hold time and analyzed by request.

FA7718-4 for pH: Field analysis required. Received out of hold time and analyzed by request.

FA7718-5 for pH: Field analysis required. Received out of hold time and analyzed by request.

Wet Chemistry By Method SM19 2320B

Matrix: AQ **Batch ID:** GN57656

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA7718-2DUP was used as the QC sample for Alkalinity, Total as CaCO3.

Wet Chemistry By Method SM19 2540C

Matrix: AQ **Batch ID:** GN57574

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA7797-1DUP was used as the QC sample for Solids, Total Dissolved.

Accutest Laboratories Southeast (ALSE) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALSE and as stated on the COC. ALSE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the ALSE Quality Manual except as noted above. This report is to be used in its entirety. ALSE is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

_____ Date: September 12, 2013

Kim Benham, Client Services (signature on file)

Summary of Hits

Job Number: FA7718
Account: WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID
Collected: 08/29/13

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA7718-1	**A-34-022**					
Aluminum		946	1.0	0.075	mg/l	SW846 6010C
Arsenic [a]		0.164	0.050	0.013	mg/l	SW846 6010C
Cadmium [a]		1.88	0.025	0.0025	mg/l	SW846 6010C
Calcium [a]		598	5.0	0.25	mg/l	SW846 6010C
Chromium [a]		1.20	0.050	0.010	mg/l	SW846 6010C
Iron		859	1.5	0.15	mg/l	SW846 6010C
Magnesium		598	25	0.37	mg/l	SW846 6010C
Potassium		280	50	1.0	mg/l	SW846 6010C
Selenium [a]		0.0197 J	0.050	0.010	mg/l	SW846 6010C
Sodium		469	50	2.5	mg/l	SW846 6010C
Chloride [b]		157 J	200	80	mg/l	EPA 300/SW846 9056A
Fluoride		3320	400	120	mg/l	EPA 300/SW846 9056A
Nitrogen, Nitrate [b]		9.9 J	10	5.0	mg/l	EPA 300/SW846 9056A
Phosphorus, Total		4310	1000	280	mg/l	EPA 365.3
Solids, Total Dissolved		13700	1000	100	mg/l	SM19 2540C
Specific Conductivity [c]		11200	1.0	1.0	umhos/cm	EPA 120.1
Sulfate		7350	200	60	mg/l	EPA 300/SW846 9056A
pH [d]		2.58			su	SM 4500H B/SW 9040C
FA7718-1F	**A-34-022**					
Phosphate, Ortho		1060	500	95	mg/l	EPA 365.3
FA7718-2	**MWA-110**					
Aluminum		2.46	0.20	0.015	mg/l	SW846 6010C
Arsenic		0.0086 J	0.010	0.0025	mg/l	SW846 6010C
Cadmium		0.0215	0.0050	0.00050	mg/l	SW846 6010C
Calcium		345	1.0	0.050	mg/l	SW846 6010C
Iron		0.0790 J	0.30	0.029	mg/l	SW846 6010C
Magnesium		236	5.0	0.074	mg/l	SW846 6010C
Potassium		23.3	10	0.20	mg/l	SW846 6010C
Selenium		0.0025 J	0.010	0.0020	mg/l	SW846 6010C
Sodium		144	40	2.0	mg/l	SW846 6010C
Alkalinity, Bicarbonate as CaCO3		84.4	5.0	5.0	mg/l	SM18 4500CO2D
Alkalinity, Total as CaCO3		84.4	5.0	0.60	mg/l	SM19 2320B
Chloride		403	50	20	mg/l	EPA 300/SW846 9056A
Fluoride		11.8	5.0	1.5	mg/l	EPA 300/SW846 9056A
Nitrogen, Nitrate [e]		223	10	5.0	mg/l	EPA 300/SW846 9056A
Phosphorus, Total		13.8	5.0	1.4	mg/l	EPA 365.3
Solids, Total Dissolved		2840	500	50	mg/l	SM19 2540C
Specific Conductivity [c]		4550	1.0	1.0	umhos/cm	EPA 120.1
Sulfate		1030	50	15	mg/l	EPA 300/SW846 9056A

Summary of Hits

Job Number: FA7718
Account: WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID
Collected: 08/29/13

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
pH [d]		5.65			su	SM 4500H B/SW 9040C
FA7718-2F	**MWA-110**					
Phosphate, Ortho		11.5	2.5	0.48	mg/l	EPA 365.3
FA7718-3	**MWB-120**					
Aluminum		1.34	0.20	0.015	mg/l	SW846 6010C
Cadmium		0.0039 J	0.0050	0.00050	mg/l	SW846 6010C
Calcium		139	1.0	0.050	mg/l	SW846 6010C
Iron		0.435	0.30	0.029	mg/l	SW846 6010C
Magnesium		53.4	5.0	0.074	mg/l	SW846 6010C
Potassium		4.79 J	10	0.20	mg/l	SW846 6010C
Selenium		0.0226	0.010	0.0020	mg/l	SW846 6010C
Sodium		32.0	10	0.50	mg/l	SW846 6010C
Alkalinity, Bicarbonate as CaCO3		247	5.0	5.0	mg/l	SM18 4500CO2D
Alkalinity, Total as CaCO3		248	5.0	0.60	mg/l	SM19 2320B
Chloride		28.7	10	4.0	mg/l	EPA 300/SW846 9056A
Fluoride		19.5	1.0	0.30	mg/l	EPA 300/SW846 9056A
Nitrogen, Nitrate		3.4	0.50	0.25	mg/l	EPA 300/SW846 9056A
Phosphorus, Total		0.11	0.10	0.028	mg/l	EPA 365.3
Solids, Total Dissolved		715	100	10	mg/l	SM19 2540C
Specific Conductivity		1090	1.0	1.0	umhos/cm	EPA 120.1
Sulfate		275	10	3.0	mg/l	EPA 300/SW846 9056A
pH [d]		6.95			su	SM 4500H B/SW 9040C
FA7718-3F	**MWB-120**					
Phosphate, Ortho		1.7	0.50	0.095	mg/l	EPA 365.3
FA7718-4	**EB08292013**					
Calcium		0.0526 J	1.0	0.050	mg/l	SW846 6010C
Alkalinity, Total as CaCO3		0.80 J	5.0	0.60	mg/l	SM19 2320B
Chloride		0.86 J	2.0	0.80	mg/l	EPA 300/SW846 9056A
Specific Conductivity		4.0	1.0	1.0	umhos/cm	EPA 120.1
pH [d]		5.58			su	SM 4500H B/SW 9040C
FA7718-4F	**EB08292013**					
Phosphate, Ortho		0.042 J	0.10	0.019	mg/l	EPA 365.3

Summary of Hits

Job Number: FA7718
Account: WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID
Collected: 08/29/13

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA7718-5	**NW-9**					
Aluminum		3.28	0.20	0.015	mg/l	SW846 6010C
Arsenic		0.0037 J	0.010	0.0025	mg/l	SW846 6010C
Cadmium		0.0086	0.0050	0.00050	mg/l	SW846 6010C
Calcium		228	1.0	0.050	mg/l	SW846 6010C
Magnesium		94.3	5.0	0.074	mg/l	SW846 6010C
Potassium		7.48 J	10	0.20	mg/l	SW846 6010C
Selenium		0.0102	0.010	0.0020	mg/l	SW846 6010C
Sodium		66.2	10	0.50	mg/l	SW846 6010C
Alkalinity, Bicarbonate as CaCO3		256	5.0	5.0	mg/l	SM18 4500CO2D
Alkalinity, Total as CaCO3		256	5.0	0.60	mg/l	SM19 2320B
Chloride		89.3	20	8.0	mg/l	EPA 300/SW846 9056A
Fluoride		14.3	2.0	0.60	mg/l	EPA 300/SW846 9056A
Nitrogen, Nitrate		26.2	1.0	0.50	mg/l	EPA 300/SW846 9056A
Phosphorus, Total		7.8	2.5	0.70	mg/l	EPA 365.3
Solids, Total Dissolved		1470	100	10	mg/l	SM19 2540C
Specific Conductivity		1920	1.0	1.0	umhos/cm	EPA 120.1
Sulfate		595	20	6.0	mg/l	EPA 300/SW846 9056A
pH [d]		5.60			su	SM 4500H B/SW 9040C
FA7718-5F	**NW-9**					
Phosphate, Ortho		3.5	1.0	0.19	mg/l	EPA 365.3

(a) Elevated reporting limit(s) due to matrix interference.
(b) Dilution required due to matrix interference.
(c) Sample analyzed beyond hold time.
(d) Field analysis required. Received out of hold time and analyzed by request.
(e) Originally ran on GN57503. Re-run on dilution beyond holdtime.

Southeast ACCUTEST LABORATORIES

4

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: A-34-022
Lab Sample ID: FA7718-1
Matrix: AQ - Ground Water
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

Date Sampled: 08/29/13
Date Received: 08/30/13
Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	946	1.0	0.075	mg/l	5	09/09/13	09/10/13	LM	SW846 6010C [1]	SW846 3010A [2]
Antimony [a]	0.0065 U	0.030	0.0065	mg/l	5	09/09/13	09/10/13	LM	SW846 6010C [1]	SW846 3010A [2]
Arsenic [a]	0.164	0.050	0.013	mg/l	5	09/09/13	09/10/13	LM	SW846 6010C [1]	SW846 3010A [2]
Cadmium [a]	1.88	0.025	0.0025	mg/l	5	09/09/13	09/10/13	LM	SW846 6010C [1]	SW846 3010A [2]
Calcium [a]	598	5.0	0.25	mg/l	5	09/09/13	09/10/13	LM	SW846 6010C [1]	SW846 3010A [2]
Chromium [a]	1.20	0.050	0.010	mg/l	5	09/09/13	09/10/13	LM	SW846 6010C [1]	SW846 3010A [2]
Iron	859	1.5	0.15	mg/l	5	09/09/13	09/10/13	LM	SW846 6010C [1]	SW846 3010A [2]
Magnesium	598	25	0.37	mg/l	5	09/09/13	09/10/13	LM	SW846 6010C [1]	SW846 3010A [2]
Potassium	280	50	1.0	mg/l	5	09/09/13	09/10/13	LM	SW846 6010C [1]	SW846 3010A [2]
Selenium [a]	0.0197 J	0.050	0.010	mg/l	5	09/09/13	09/10/13	LM	SW846 6010C [1]	SW846 3010A [2]
Sodium	469	50	2.5	mg/l	5	09/09/13	09/10/13	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA11028
(2) Prep QC Batch: MP25796

(a) Elevated reporting limit(s) due to matrix interference.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: A-34-022
Lab Sample ID: FA7718-1
Matrix: AQ - Ground Water
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

Date Sampled: 08/29/13
Date Received: 08/30/13
Percent Solids: n/a

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Alkalinity, Bicarbonate as CaC	5.0 U	5.0	5.0	mg/l	1	09/12/13 10:25	AC	SM18 4500CO2D
Alkalinity, Carbonate	5.0 U	5.0	5.0	mg/l	1	09/12/13 10:25	AC	SM18 4500CO2D
Alkalinity, Total as CaCO3	0.60 U	5.0	0.60	mg/l	1	09/12/13 10:25	AC	SM19 2320B
Chloride [a]	157 J	200	80	mg/l	100	08/30/13 15:11	AA	EPA 300/SW846 9056A
Fluoride	3320	400	120	mg/l	2000	09/09/13 14:32	AA	EPA 300/SW846 9056A
Nitrogen, Nitrate [a]	9.9 J	10	5.0	mg/l	100	08/30/13 15:11	AA	EPA 300/SW846 9056A
Phosphorus, Total	4310	1000	280	mg/l	10000	09/09/13 09:00	LE	EPA 365.3
Solids, Total Dissolved	13700	1000	100	mg/l	10	09/04/13 14:20	KC	SM19 2540C
Specific Conductivity [b]	11200	1.0	1.0	umhos/cm	1	08/30/13 11:00	VK	EPA 120.1
Sulfate	7350	200	60	mg/l	100	08/30/13 15:11	AA	EPA 300/SW846 9056A
pH [c]	2.58			su	1	09/03/13 11:00	VK	SM 4500H B/SW 9040C

(a) Dilution required due to matrix interference.
(b) Sample analyzed beyond hold time.
(c) Field analysis required. Received out of hold time and analyzed by request.

RL = Reporting Limit
MDL = Method Detection Limit
U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	A-34-022		
Lab Sample ID:	FA7718-1F	**Date Sampled:**	08/29/13
Matrix:	AQ - Groundwater Filtered	**Date Received:**	08/30/13
		Percent Solids:	n/a
Project:	Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Phosphate, Ortho	1060	500	95	mg/l	5000	08/30/13 11:00	KC	EPA 365.3

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: MWA-110
Lab Sample ID: FA7718-2
Matrix: AQ - Ground Water
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

Date Sampled: 08/29/13
Date Received: 08/30/13
Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	2.46	0.20	0.015	mg/l	1	09/09/13	09/09/13	LM	SW846 6010C [1]	SW846 3010A [3]
Antimony	0.0013 U	0.0060	0.0013	mg/l	1	09/09/13	09/09/13	LM	SW846 6010C [1]	SW846 3010A [3]
Arsenic	0.0086 J	0.010	0.0025	mg/l	1	09/09/13	09/09/13	LM	SW846 6010C [1]	SW846 3010A [3]
Cadmium	0.0215	0.0050	0.00050	mg/l	1	09/09/13	09/09/13	LM	SW846 6010C [1]	SW846 3010A [3]
Calcium	345	1.0	0.050	mg/l	1	09/09/13	09/09/13	LM	SW846 6010C [1]	SW846 3010A [3]
Chromium	0.0020 U	0.010	0.0020	mg/l	1	09/09/13	09/09/13	LM	SW846 6010C [1]	SW846 3010A [3]
Iron	0.0790 J	0.30	0.029	mg/l	1	09/09/13	09/09/13	LM	SW846 6010C [1]	SW846 3010A [3]
Magnesium	236	5.0	0.074	mg/l	1	09/09/13	09/09/13	LM	SW846 6010C [1]	SW846 3010A [3]
Potassium	23.3	10	0.20	mg/l	1	09/09/13	09/09/13	LM	SW846 6010C [1]	SW846 3010A [3]
Selenium	0.0025 J	0.010	0.0020	mg/l	1	09/09/13	09/09/13	LM	SW846 6010C [1]	SW846 3010A [3]
Sodium	144	40	2.0	mg/l	4	09/09/13	09/10/13	LM	SW846 6010C [2]	SW846 3010A [3]

(1) Instrument QC Batch: MA11025
(2) Instrument QC Batch: MA11028
(3) Prep QC Batch: MP25796

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: MWA-110
Lab Sample ID: FA7718-2
Matrix: AQ - Ground Water
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

Date Sampled: 08/29/13
Date Received: 08/30/13
Percent Solids: n/a

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Alkalinity, Bicarbonate as CaC	84.4	5.0	5.0	mg/l	1	09/12/13 10:25	AC	SM18 4500CO2D
Alkalinity, Carbonate	5.0 U	5.0	5.0	mg/l	1	09/12/13 10:25	AC	SM18 4500CO2D
Alkalinity, Total as CaCO3	84.4	5.0	0.60	mg/l	1	09/12/13 10:25	AC	SM19 2320B
Chloride	403	50	20	mg/l	25	08/30/13 15:59	AA	EPA 300/SW846 9056A
Fluoride	11.8	5.0	1.5	mg/l	25	09/09/13 13:58	AA	EPA 300/SW846 9056A
Nitrogen, Nitrate [a]	223	10	5.0	mg/l	100	09/03/13 17:03	AA	EPA 300/SW846 9056A
Phosphorus, Total	13.8	5.0	1.4	mg/l	50	09/09/13 09:00	LE	EPA 365.3
Solids, Total Dissolved	2840	500	50	mg/l	5	09/04/13 14:20	KC	SM19 2540C
Specific Conductivity [b]	4550	1.0	1.0	umhos/cm	1	08/30/13 11:00	VK	EPA 120.1
Sulfate	1030	50	15	mg/l	25	08/30/13 15:59	AA	EPA 300/SW846 9056A
pH [c]	5.65			su	1	09/03/13 11:00	VK	SM 4500H B/SW 9040C

(a) Originally ran on GN57503. Re-run on dilution beyond holdtime.
(b) Sample analyzed beyond hold time.
(c) Field analysis required. Received out of hold time and analyzed by request.

RL = Reporting Limit
MDL = Method Detection Limit
U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	MWA-110		
Lab Sample ID:	FA7718-2F	**Date Sampled:**	08/29/13
Matrix:	AQ - Groundwater Filtered	**Date Received:**	08/30/13
		Percent Solids:	n/a
Project:	Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Phosphate, Ortho	11.5	2.5	0.48	mg/l	25	08/30/13 11:00	KC	EPA 365.3

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: MWB-120
Lab Sample ID: FA7718-3
Matrix: AQ - Ground Water
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

Date Sampled: 08/29/13
Date Received: 08/30/13
Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	1.34	0.20	0.015	mg/l	1	09/09/13	09/09/13	LM	SW846 6010C [1]	SW846 3010A [2]
Antimony	0.0013 U	0.0060	0.0013	mg/l	1	09/09/13	09/09/13	LM	SW846 6010C [1]	SW846 3010A [2]
Arsenic	0.0025 U	0.010	0.0025	mg/l	1	09/09/13	09/09/13	LM	SW846 6010C [1]	SW846 3010A [2]
Cadmium	0.0039 J	0.0050	0.00050	mg/l	1	09/09/13	09/09/13	LM	SW846 6010C [1]	SW846 3010A [2]
Calcium	139	1.0	0.050	mg/l	1	09/09/13	09/09/13	LM	SW846 6010C [1]	SW846 3010A [2]
Chromium	0.0020 U	0.010	0.0020	mg/l	1	09/09/13	09/09/13	LM	SW846 6010C [1]	SW846 3010A [2]
Iron	0.435	0.30	0.029	mg/l	1	09/09/13	09/09/13	LM	SW846 6010C [1]	SW846 3010A [2]
Magnesium	53.4	5.0	0.074	mg/l	1	09/09/13	09/09/13	LM	SW846 6010C [1]	SW846 3010A [2]
Potassium	4.79 J	10	0.20	mg/l	1	09/09/13	09/09/13	LM	SW846 6010C [1]	SW846 3010A [2]
Selenium	0.0226	0.010	0.0020	mg/l	1	09/09/13	09/09/13	LM	SW846 6010C [1]	SW846 3010A [2]
Sodium	32.0	10	0.50	mg/l	1	09/09/13	09/09/13	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA11025
(2) Prep QC Batch: MP25796

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: MWB-120
Lab Sample ID: FA7718-3
Matrix: AQ - Ground Water
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

Date Sampled: 08/29/13
Date Received: 08/30/13
Percent Solids: n/a

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Alkalinity, Bicarbonate as CaC	247	5.0	5.0	mg/l	1	09/12/13 10:25	AC	SM18 4500CO2D
Alkalinity, Carbonate	5.0 U	5.0	5.0	mg/l	1	09/12/13 10:25	AC	SM18 4500CO2D
Alkalinity, Total as CaCO3	248	5.0	0.60	mg/l	1	09/12/13 10:25	AC	SM19 2320B
Chloride	28.7	10	4.0	mg/l	5	08/30/13 16:15	AA	EPA 300/SW846 9056A
Fluoride	19.5	1.0	0.30	mg/l	5	09/09/13 14:15	AA	EPA 300/SW846 9056A
Nitrogen, Nitrate	3.4	0.50	0.25	mg/l	5	08/30/13 16:15	AA	EPA 300/SW846 9056A
Phosphorus, Total	0.11	0.10	0.028	mg/l	1	09/09/13 09:00	LE	EPA 365.3
Solids, Total Dissolved	715	100	10	mg/l	1	09/04/13 14:20	KC	SM19 2540C
Specific Conductivity	1090	1.0	1.0	umhos/cm	1	08/30/13 11:00	VK	EPA 120.1
Sulfate	275	10	3.0	mg/l	5	08/30/13 16:15	AA	EPA 300/SW846 9056A
pH [a]	6.95			su	1	09/03/13 11:00	VK	SM 4500H B/SW 9040C

(a) Field analysis required. Received out of hold time and analyzed by request.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	MWB-120		
Lab Sample ID:	FA7718-3F	**Date Sampled:**	08/29/13
Matrix:	AQ - Groundwater Filtered	**Date Received:**	08/30/13
		Percent Solids:	n/a
Project:	Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Phosphate, Ortho	1.7	0.50	0.095	mg/l	5	08/30/13 11:00	KC	EPA 365.3

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: EB08292013
Lab Sample ID: FA7718-4
Matrix: AQ - Equipment Blank
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

Date Sampled: 08/29/13
Date Received: 08/30/13
Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	0.015 U	0.20	0.015	mg/l	1	09/09/13	09/09/13	LM	SW846 6010C [1]	SW846 3010A [2]
Antimony	0.0013 U	0.0060	0.0013	mg/l	1	09/09/13	09/09/13	LM	SW846 6010C [1]	SW846 3010A [2]
Arsenic	0.0025 U	0.010	0.0025	mg/l	1	09/09/13	09/09/13	LM	SW846 6010C [1]	SW846 3010A [2]
Cadmium	0.00050 U	0.0050	0.00050	mg/l	1	09/09/13	09/09/13	LM	SW846 6010C [1]	SW846 3010A [2]
Calcium	0.0526 J	1.0	0.050	mg/l	1	09/09/13	09/09/13	LM	SW846 6010C [1]	SW846 3010A [2]
Chromium	0.0020 U	0.010	0.0020	mg/l	1	09/09/13	09/09/13	LM	SW846 6010C [1]	SW846 3010A [2]
Iron	0.029 U	0.30	0.029	mg/l	1	09/09/13	09/09/13	LM	SW846 6010C [1]	SW846 3010A [2]
Magnesium	0.074 U	5.0	0.074	mg/l	1	09/09/13	09/09/13	LM	SW846 6010C [1]	SW846 3010A [2]
Potassium	0.20 U	10	0.20	mg/l	1	09/09/13	09/09/13	LM	SW846 6010C [1]	SW846 3010A [2]
Selenium	0.0020 U	0.010	0.0020	mg/l	1	09/09/13	09/09/13	LM	SW846 6010C [1]	SW846 3010A [2]
Sodium	0.50 U	10	0.50	mg/l	1	09/09/13	09/09/13	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA11025
(2) Prep QC Batch: MP25796

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: EB08292013
Lab Sample ID: FA7718-4
Matrix: AQ - Equipment Blank
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

Date Sampled: 08/29/13
Date Received: 08/30/13
Percent Solids: n/a

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Alkalinity, Bicarbonate as CaC	5.0 U	5.0	5.0	mg/l	1	09/12/13 10:25	AC	SM18 4500CO2D
Alkalinity, Carbonate	5.0 U	5.0	5.0	mg/l	1	09/12/13 10:25	AC	SM18 4500CO2D
Alkalinity, Total as CaCO3	0.80 J	5.0	0.60	mg/l	1	09/12/13 10:25	AC	SM19 2320B
Chloride	0.86 J	2.0	0.80	mg/l	1	08/30/13 16:31	AA	EPA 300/SW846 9056A
Fluoride	0.060 U	0.20	0.060	mg/l	1	09/09/13 13:08	AA	EPA 300/SW846 9056A
Nitrogen, Nitrate	0.050 U	0.10	0.050	mg/l	1	08/30/13 16:31	AA	EPA 300/SW846 9056A
Phosphorus, Total	0.028 U	0.10	0.028	mg/l	1	09/09/13 09:00	LE	EPA 365.3
Solids, Total Dissolved	10 U	100	10	mg/l	1	09/04/13 14:20	KC	SM19 2540C
Specific Conductivity	4.0	1.0	1.0	umhos/cm	1	08/30/13 11:00	VK	EPA 120.1
Sulfate	0.60 U	2.0	0.60	mg/l	1	08/30/13 16:31	AA	EPA 300/SW846 9056A
pH [a]	5.58			su	1	09/03/13 11:00	VK	SM 4500H B/SW 9040C

(a) Field analysis required. Received out of hold time and analyzed by request.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	EB08292013		
Lab Sample ID:	FA7718-4F	**Date Sampled:**	08/29/13
Matrix:	AQ - Equip Blank Filtered	**Date Received:**	08/30/13
		Percent Solids:	n/a
Project:	Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Phosphate, Ortho	0.042 J	0.10	0.019	mg/l	1	08/30/13 11:00	KC	EPA 365.3

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: NW-9
Lab Sample ID: FA7718-5
Matrix: AQ - Ground Water
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

Date Sampled: 08/29/13
Date Received: 08/30/13
Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	3.28	0.20	0.015	mg/l	1	09/09/13	09/10/13	LM	SW846 6010C [1]	SW846 3010A [2]
Antimony	0.0013 U	0.0060	0.0013	mg/l	1	09/09/13	09/10/13	LM	SW846 6010C [1]	SW846 3010A [2]
Arsenic	0.0037 J	0.010	0.0025	mg/l	1	09/09/13	09/10/13	LM	SW846 6010C [1]	SW846 3010A [2]
Cadmium	0.0086	0.0050	0.00050	mg/l	1	09/09/13	09/10/13	LM	SW846 6010C [1]	SW846 3010A [2]
Calcium	228	1.0	0.050	mg/l	1	09/09/13	09/10/13	LM	SW846 6010C [1]	SW846 3010A [2]
Chromium	0.0020 U	0.010	0.0020	mg/l	1	09/09/13	09/10/13	LM	SW846 6010C [1]	SW846 3010A [2]
Iron	0.029 U	0.30	0.029	mg/l	1	09/09/13	09/10/13	LM	SW846 6010C [1]	SW846 3010A [2]
Magnesium	94.3	5.0	0.074	mg/l	1	09/09/13	09/10/13	LM	SW846 6010C [1]	SW846 3010A [2]
Potassium	7.48 J	10	0.20	mg/l	1	09/09/13	09/10/13	LM	SW846 6010C [1]	SW846 3010A [2]
Selenium	0.0102	0.010	0.0020	mg/l	1	09/09/13	09/10/13	LM	SW846 6010C [1]	SW846 3010A [2]
Sodium	66.2	10	0.50	mg/l	1	09/09/13	09/10/13	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA11029
(2) Prep QC Batch: MP25802

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: NW-9
Lab Sample ID: FA7718-5
Matrix: AQ - Ground Water
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

Date Sampled: 08/29/13
Date Received: 08/30/13
Percent Solids: n/a

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Alkalinity, Bicarbonate as CaC	256	5.0	5.0	mg/l	1	09/12/13 10:25	AC	SM18 4500CO2D
Alkalinity, Carbonate	5.0 U	5.0	5.0	mg/l	1	09/12/13 10:25	AC	SM18 4500CO2D
Alkalinity, Total as CaCO3	256	5.0	0.60	mg/l	1	09/12/13 10:25	AC	SM19 2320B
Chloride	89.3	20	8.0	mg/l	10	08/30/13 16:47	AA	EPA 300/SW846 9056A
Fluoride	14.3	2.0	0.60	mg/l	10	09/09/13 14:49	AA	EPA 300/SW846 9056A
Nitrogen, Nitrate	26.2	1.0	0.50	mg/l	10	08/30/13 16:47	AA	EPA 300/SW846 9056A
Phosphorus, Total	7.8	2.5	0.70	mg/l	25	09/09/13 09:00	LE	EPA 365.3
Solids, Total Dissolved	1470	100	10	mg/l	1	09/04/13 14:20	KC	SM19 2540C
Specific Conductivity	1920	1.0	1.0	umhos/cm	1	08/30/13 11:00	VK	EPA 120.1
Sulfate	595	20	6.0	mg/l	10	08/30/13 16:47	AA	EPA 300/SW846 9056A
pH [a]	5.60			su	1	09/03/13 11:00	VK	SM 4500H B/SW 9040C

(a) Field analysis required. Received out of hold time and analyzed by request.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	NW-9		
Lab Sample ID:	FA7718-5F	**Date Sampled:**	08/29/13
Matrix:	AQ - Groundwater Filtered	**Date Received:**	08/30/13
		Percent Solids:	n/a
Project:	Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Phosphate, Ortho	3.5	1.0	0.19	mg/l	10	08/30/13 11:00	KC	EPA 365.3

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

Accutest Laboratories Southeast
Chain of Custody

ACCUTEST LABORATORIES

4405 Vineland Road, Suite C-15 Orlando, Fl 32811
TEL. 407-425-6700 • FAX: 407-425-0707 •
www.accutest.com

Accutest JOB # FA7718

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Accutest Quote #

SKIFF#

Client / Reporting Information

Company Name: WSP ENV + ENG
Address: 205 W. Park St.
City: Jackson State: MO Zip: 63755
Project Contact: Jim Huff E-mail: Jim.Huff@wspgroup.com
Phone#: 571-217-6759
Sampler(s) Name(s) (Printed): T. Pattie

Project Information

Project Name: AGRIUM
Street:
City: State:
Project #:
Fax #:
Client Purchase Order #:

Analytical Information

SEE ATTACHED

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL - Sludge
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe

Accutest Sample #	Field ID / Point of Collection	Collection DATE	Collection TIME	SAMPLED BY:	MATRIX	TOTAL # OF BOTTLES	Container Information: OTHER	HCl	NaOH	HNO3	H2SO4	NaOH+ZnAc	DI WATER	MeOH		LAB USE ONLY
1	A-34-022	08/28/13	1055	TP	GW	4		X			X	X			X	
2	MWA-110	08/15/13	0945	TRP	GW	4		X			X	X			X	
3	MWB-120	08/29/13	1110	TRP	GW	4		X			X	X			X	
4	EB08292013	08/29/13	1200	TRP	GW	4		X			X	X			X	
5	NW-9	08/29/13	1225	TP	GW	4		X			X	X			X	

TURNAROUND TIME (Business Days)

Approved By: / Rush Code

- [X] 10 Days Standard
- [ ] 7 Day RUSH
- [ ] 5 Day RUSH
- [ ] 3 Day EMERGENCY
- [ ] 2 Day EMERGENCY
- [ ] 1 Day EMERGENCY
- [ ] OTHER

Emergency or Rush T/A Data Available VIA Email or Lablink

Data Deliverable Information

- [ ] COMMERCIAL "A" (RESULTS ONLY)
- [ ] COMMERCIAL "B" (RESULTS PLUS QC)
- [ ] REDT1 (EPA LEVEL 3)
- [ ] FULT1 (EPA LEVEL 4)
- [ ] EDD'S

Comments / Remarks

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished by:	Date Time:	Received By:
1	082913 1310	2	3	08-30-13	4
Relinquished by:	Date Time:	Received By:	Relinquished by:	Date Time:	Received By:
5		6	7		8

Lab Use Only: Custody Seal in Place: Y N Temp Blank Provided: Y N Preserved where Applicable: Y N Total # of Coolers: Cooler Temperature (s) °C: 3.2

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FA7718: Chain of Custody
Page 1 of 3

O-Phos - Field Filtered

Note: A-34-022 High Phosphate

Analyte List #2 (groundwater samples and groundwater sampling equipment blanks)

- total dissolved solids (TDS)
- Total metals - aluminum, antimony, arsenic, cadmium, calcium, chromium, iron, magnesium, potassium, selenium, and sodium
- chloride, fluoride, nitrate as N, and sulfate
- pH
- total phosphorous
- dissolved orthophosphate
- bicarbonate and carbonate alkalinity as CaCO3
- specific conductance

NOTE – If turbidity at the time of sampling is greater than 50 NTU, collect dissolved metals sample and submit to laboratory ON HOLD for the same analyte list as the total metals sample.

FA7718: Chain of Custody
Page 2 of 3

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: FA7718 CLIENT: WSP PROJECT: Agrivo

DATE/TIME RECEIVED: 08/30/13 930 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 1

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 8033 5737 4020

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET
- [ ] WET ICE PRESENT

TRIP BLANK INFORMATION

- [ ] TRIP BLANK PROVIDED
- [x] TRIP BLANK NOT PROVIDED
- [x] TRIP BLANK NOT ON COC
- [ ] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [ ] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM_____ 5-GRAM_____

NUMBER OF 5035 FIELD KITS ? _____

NUMBER OF LAB FILTERED METALS ? _____

TEMPERATURE INFORMATION

- [ ] IR THERM ID 1 CORR. FACTOR +0.4
- [ ] OBSERVED TEMPS: 2-8
- [ ] CORRECTED TEMPS: 3-2

SAMPLE INFORMATION

- [ ] SAMPLE LABELS PRESENT ON ALL BOTTLES
- [ ] INCORRECT NUMBER OF CONTAINERS USED
- [x] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] 5035 FIELD KIT FROZEN WITHIN 48 HOUR'S
- [ ] RESIDUAL CHLORINE PRESENT

{APPICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

SUMMARY OF COMMENTS: Sample's 4,5 Metals Bottle not Preserved Will Preserve them 08/30/13 0950. P856 2ml HNO3

TECHNICIAN SIGNATURE/DATE RWill 08-30-13 REVIEWER SIGNATURE/DATE 08/30/13

NF 12/10

receipt confirmation 122910.xls

5.1 5

FA7718: Chain of Custody
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Southeast ACCUTEST LABORATORIES

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Instrument Runlogs
- Initial and Continuing Calibration Blanks
- Initial and Continuing Calibration Checks
- High and Low Check Standards
- Interfering Element Check Standards
- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA7718
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB090913M1.ICP Date Analyzed: 09/09/13 Methods: SW846 6010C
Analyst: LM Run ID: MA11025
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
07:59	MA11025-STD1	1		STDA
08:04	MA11025-STD2	1		STDB
08:10	MA11025-STD3	1		STDC
08:14	MA11025-STD4	1		STDD
08:18	MA11025-HSTD1	1		
08:22	MA11025-ICV1	1		
08:32	MA11025-ICB1	1		
08:35	MA11025-CRIA1	1		
08:44	MA11025-ICSA1	1		
08:52	MA11025-ICSAB1	1		
09:00	MA11025-CCV1	1		
09:10	MA11025-CCB1	1		
09:18	MP25792-MB1	1		
09:22	MP25792-B1	1		
09:26	FA7875-1	1		(sample used for QC only; not part of login FA7718)
09:30	MP25792-D1	1		
09:34	MP25792-SD1	5		
09:38	MP25792-PS1	1		
09:42	MP25792-S1	1		
09:46	MP25792-S2	1		
09:50	MP25793-MB1	1		
09:54	MP25793-B1	1		
09:58	MA11025-CCV2	1		
10:02	MA11025-CCB2	1		
10:06	FA7834-29	1		(sample used for QC only; not part of login FA7718)
10:10	MP25793-D1	1		
10:15	MP25793-SD1	5		
10:19	MP25793-PS1	1		
10:23	MP25793-S1	1		
10:27	MP25793-S2	1		
10:36	ZZZZZZ	1		
10:40	ZZZZZZ	1		
10:44	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA7718
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB090913M1.ICP Date Analyzed: 09/09/13 Methods: SW846 6010C
Analyst: LM Run ID: MA11025
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
10:49	MA11025-CCV3	1		
10:52	MA11025-CCB3	1		
10:57	ZZZZZZ	1		
11:01	ZZZZZZ	1		
11:05	ZZZZZZ	1		
11:09	ZZZZZZ	1		
11:18	ZZZZZZ	1		
11:23	ZZZZZZ	1		
11:27	ZZZZZZ	1		
11:31	ZZZZZZ	1		
11:36	ZZZZZZ	1		
11:40	MA11025-CCV4	1		
11:44	MA11025-CCB4	1		
11:49	ZZZZZZ	1		
11:53	ZZZZZZ	1		
11:57	ZZZZZZ	1		
12:10	MP25796-MB1	1		
12:14	MP25796-B1	1		
12:18	FA7918-1	1		(sample used for QC only; not part of login FA7718)
12:22	MP25796-D1	1		
12:26	MP25796-SD1	5		
12:30	MA11025-CCV5	1		
12:34	MA11025-CCB5	1		
12:38	MP25796-PS1	1		
12:42	MP25796-S1	1		
12:46	MP25796-S2	1		
12:50	ZZZZZZ	1		
12:55	ZZZZZZ	1		
12:59	ZZZZZZ	1		
13:03	ZZZZZZ	1		
13:07	ZZZZZZ	1		
13:11	ZZZZZZ	1		
13:15	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA7718
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB090913M1.ICP Date Analyzed: 09/09/13 Methods: SW846 6010C
Analyst: LM Run ID: MA11025
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
13:19	MA11025-CCV6	1		
13:23	MA11025-CCB6	1		
13:27	ZZZZZZ	1		
13:32	ZZZZZZ	1		
13:36	ZZZZZZ	1		
13:40	ZZZZZZ	1		
13:44	ZZZZZZ	1		
13:48	ZZZZZZ	1		
13:53	ZZZZZZ	1		
13:57	ZZZZZZ	1		
14:07	FA7718-2	1		
14:11	MA11025-CCV7	1		
14:15	MA11025-CCB7	1		
14:19	FA7718-3	1		
14:23	FA7718-4	1		
14:27	MP25796-MB2A	1		
---------->	Last reportable sample/prep for job FA7718			
14:32	MP25801-MB1	1		
14:36	MP25801-B1	1		
15:02	MA11025-CCV8	1		
15:06	MA11025-CCB8	1		
15:24	ZZZZZZ	1		
15:28	ZZZZZZ	1		
15:33	ZZZZZZ	1		
15:37	ZZZZZZ	1		
15:41	ZZZZZZ	1		
15:45	ZZZZZZ	1		
15:53	MA11025-CCV9	1		
15:57	MA11025-CCB9	1		
16:06	ZZZZZZ	1		
16:18	ZZZZZZ	1		
16:23	ZZZZZZ	1		
16:27	ZZZZZZ	1		
16:31	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA7718
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB090913M1.ICP Date Analyzed: 09/09/13 Methods: SW846 6010C
Analyst: LM Run ID: MA11025
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
16:35	ZZZZZZ	1		
16:39	MA11025-CRIA2	1		
16:43	MA11025-CCV10	1		
16:47	MA11025-CCB10	1		
---------->	Last reportable CCB for job FA7718			
16:51	MA11025-ICSA2	1		
16:56	MA11025-ICSAB2	1		
17:00	MA11025-CCV11	1		
17:04	MA11025-CCB11	1		

Refer to raw data for calibration curve and standards.

INTERNAL STANDARD SUMMARY

Login Number: FA7718
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB090913M1.ICP Date Analyzed: 09/09/13 Methods: SW846 6010C
Analyst: LM Run ID: MA11025
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
07:59	MA11025-STD1	7794	48477	6645	2932
08:04	MA11025-STD2	7724	47323	6657	2795
08:10	MA11025-STD3	7420	45566	6600	2532
08:14	MA11025-STD4	7022	43513	6438	2262
08:18	MA11025-HSTD1	7003	43291	6378	2252
08:22	MA11025-ICV1	7461	45478	6601	2525
08:32	MA11025-ICB1	7721 R	47509 R	6468 R	2867 R
08:35	MA11025-CRIA1	7639	46583	6456	2781
08:44	MA11025-ICSA1	6617	39712	6296	2276
08:52	MA11025-ICSAB1	6618	39426	6171	2244
09:00	MA11025-CCV1	7186	43698	6310	2431
09:10	MA11025-CCB1	7675	47171	6403	2847
09:18	MP25792-MB1	7777	47906	6628	2858
09:22	MP25792-B1	7395	45098	6524	2604
09:26	FA7875-1	7380	45338	6552	2652
09:30	MP25792-D1	7361	45132	6505	2643
09:34	MP25792-SD1	7523	46109	6420	2757
09:38	MP25792-PS1	7354	44791	6529	2601
09:42	MP25792-S1	7201	43832	6520	2502
09:46	MP25792-S2	7191	43857	6417	2504
09:50	MP25793-MB1	7515	46615	6457	2754
09:54	MP25793-B1	7197	44046	6319	2531
09:58	MA11025-CCV2	7283	44351	6353	2456
10:02	MA11025-CCB2	7886	48242	6544	2922
10:06	FA7834-29	8274	50123	7811	2150
10:10	MP25793-D1	8720	52178	8142 !	2187
10:15	MP25793-SD1	7678	46665	6695	2546
10:19	MP25793-PS1	8172	49314	7689	2125
10:23	MP25793-S1	8316	50105	7835	2104
10:27	MP25793-S2	8307	50205	7813	2104
10:36	ZZZZZZ	8768	52770	8132 !	2170
10:40	ZZZZZZ	7783	47228	7519	1853
10:44	ZZZZZZ	9250	55405	8512 !	2133

INTERNAL STANDARD SUMMARY

Login Number: FA7718
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB090913M1.ICP Date Analyzed: 09/09/13 Methods: SW846 6010C
Analyst: LM Run ID: MA11025
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
10:49	MA11025-CCV3	7266	43932	6055	2441
10:52	MA11025-CCB3	7689	47193	6210	2851
10:57	ZZZZZZ	6412	39135	6276	1758
11:01	ZZZZZZ	8792	52704	8027	2141
11:05	ZZZZZZ	10039 !	60273 !	9471 !	2120
11:09	ZZZZZZ	8995	53628	8269 !	2178
11:18	ZZZZZZ	8919	53083	8117 !	2251
11:23	ZZZZZZ	8275	49546	7702	1943
11:27	ZZZZZZ	9110	54509	8303 !	2158
11:31	ZZZZZZ	9053	56465	8741 !	2149
11:36	ZZZZZZ	7932	47602	7000	2205
11:40	MA11025-CCV4	7444	45171	6118	2503
11:44	MA11025-CCB4	7853	48131	6184	2908
11:49	ZZZZZZ	9998 !	59976 !	9269 !	2182
11:53	ZZZZZZ	8588	51379	7744	2302
11:57	ZZZZZZ	7476	45168	6336	2521
12:10	MP25796-MB1	7730	47281	6147	2863
12:14	MP25796-B1	7398	44825	6017	2595
12:18	FA7918-1	7387	45129	6101	2641
12:22	MP25796-D1	7476	45318	6181	2675
12:26	MP25796-SD1	7752	47344	6167	2831
12:30	MA11025-CCV5	7379	44643	6103	2484
12:34	MA11025-CCB5	7815	47771	6154	2885
12:38	MP25796-PS1	7364	44618	6135	2606
12:42	MP25796-S1	7368	44358	6224	2554
12:46	MP25796-S2	7387	44715	6264	2561
12:50	ZZZZZZ	9751	59019	8450	2533
12:55	ZZZZZZ	7705	46806	6359	2765
12:59	ZZZZZZ	7755	47335	6326	2776
13:03	ZZZZZZ	7732	47107	6300	2789
13:07	ZZZZZZ	7771	47633	6307	2841
13:11	ZZZZZZ	7601	46385	6289	2712
13:15	ZZZZZZ	7573	46351	6285	2712

INTERNAL STANDARD SUMMARY

Login Number: FA7718
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB090913M1.ICP Date Analyzed: 09/09/13 Methods: SW846 6010C
Analyst: LM Run ID: MA11025
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
13:19	MA11025-CCV6	7422	44895	6140	2504
13:23	MA11025-CCB6	7858	48250	6187	2895
13:27	ZZZZZZ	7546	45995	6234	2698
13:32	ZZZZZZ	7573	46165	6273	2694
13:36	ZZZZZZ	7769	47337	6261	2813
13:40	ZZZZZZ	7780	47380	6284	2814
13:44	ZZZZZZ	6840	41243	6024	2317
13:48	ZZZZZZ	6852	41532	6007	2313
13:53	ZZZZZZ	10023	60076	9054	2272
13:57	ZZZZZZ	6709	40736	6030	2298
14:07	FA7718-2	6855	41783	5949	2333
14:11	MA11025-CCV7	7240	43730	5993	2432
14:15	MA11025-CCB7	7739	47321	6084	2855
14:19	FA7718-3	7300	44503	6130	2571
14:23	FA7718-4	7802	48165	6298	2872
14:27	MP25796-MB2A	7749	47713	6216	2844
14:32	MP25801-MB1	7835	47664	6374	2859
14:36	MP25801-B1	7366	44556	6124	2561
15:02	MA11025-CCV8	7477	45412	6274	2513
15:06	MA11025-CCB8	7920	48652	6357	2916
15:24	ZZZZZZ	7960	47796	6894	2764
15:28	ZZZZZZ	8034	47403	6766	2837
15:33	ZZZZZZ	8071	48120	6837	2743
15:37	ZZZZZZ	8133	48293	6944	2716
15:41	ZZZZZZ	7906	47091	6633	2807
15:45	ZZZZZZ	7832	46928	6700	2709
15:53	MA11025-CCV9	7634	46215	6545	2545
15:57	MA11025-CCB9	8052	49973	6641	2959
16:06	ZZZZZZ	9383	56280	7995	2734
16:18	ZZZZZZ	8388	50506	7765	2419
16:23	ZZZZZZ	7737	47250	6701	2769
16:27	ZZZZZZ	8007	47889	7328	2508
16:31	ZZZZZZ	7727	47081	6689	2716

INTERNAL STANDARD SUMMARY

Login Number: FA7718
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB090913M1.ICP Date Analyzed: 09/09/13 Methods: SW846 6010C
Analyst: LM Run ID: MA11025
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
16:35	ZZZZZZ	9441	56508	8138 !	2771
16:39	MA11025-CRIA2	8174	50283	6766	2959
16:43	MA11025-CCV10	7676	47164	6774	2576
16:47	MA11025-CCB10	8128	50506	6746	3011
16:51	MA11025-ICSA2	6938	41755	6383	2388
16:56	MA11025-ICSAB2	No results reported for the elements associated with this internal standard.			
17:00	MA11025-CCV11	7514	46364	6587	2519
17:04	MA11025-CCB11	8017	49612	6690	2960

R = Reference for ISTD limits. ! = Outside limits.

LEGEND:

Istd#	Parameter	Limits
Istd#1	Yttrium (2243)	60-125 %
Istd#2	Yttrium (3600)	60-125 %
Istd#3	Yttrium (3710)	60-125 %
Istd#4	Indium	60-125 %

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: FA7718
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB090913M1.ICP Date Analyzed: 09/09/13 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA11025 Units: ug/l

Time: / Sample ID:			08:32 ICB1		09:10 CCB1		10:02 CCB2		10:52 CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	15	-7.1	<200	-2.9	<200	-4.9	<200	1.3	<200
Antimony	6.0	1.3	1.1	<6.0	-2.8	<6.0	-1.8	<6.0	-1.7	<6.0
Arsenic	10	1.6	0.60	<10	0.80	<10	0.60	<10	0.70	<10
Barium	200	1	anr							
Beryllium	4.0	.5								
Cadmium	5.0	.5	0.0	<5.0	0.10	<5.0	0.10	<5.0	0.20	<5.0
Calcium	1000	50	0.80	<1000	3.6	<1000	4.6	<1000	34.1	<1000
Chromium	10	1.8	0.10	<10	0.10	<10	0.40	<10	0.20	<10
Cobalt	50	.5								
Copper	25	1	anr							
Iron	300	29	-4.6	<300	-0.60	<300	5.5	<300	6.6	<300
Lead	5.0	1.1	anr							
Magnesium	5000	74	1.3	<5000	13.4	<5000	10.0	<5000	12.3	<5000
Manganese	15	.7								
Molybdenum	50	.6								
Nickel	40	.5								
Potassium	10000	200	25.6	<10000	-38	<10000	10.2	<10000	9.0	<10000
Selenium	10	2	0.0	<10	2.0	<10	1.3	<10	0.30	<10
Silver	10	.5	anr							
Sodium	10000	500	2.4	<10000	6.0	<10000	6.1	<10000	-2.2	<10000
Strontium	10	.5								
Thallium	10	1.3								
Tin	50	.7								
Titanium	10	.9								
Vanadium	50	.5								
Zinc	20	3	anr							

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: FA7718
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB090913M1.ICP Date Analyzed: 09/09/13 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA11025 Units: ug/l

Time: / Sample ID:			11:44 CCB4		12:34 CCB5		13:23 CCB6		14:15 CCB7	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	15	-3.6	<200	6.5	<200	3.7	<200	4.5	<200
Antimony	6.0	1.3	-2.0	<6.0	-2.4	<6.0	-1.9	<6.0	-2.2	<6.0
Arsenic	10	1.6	0.50	<10	0.90	<10	1.1	<10	0.60	<10
Barium	200	1	anr							
Beryllium	4.0	.5								
Cadmium	5.0	.5	0.20	<5.0	0.20	<5.0	0.20	<5.0	0.20	<5.0
Calcium	1000	50	24.5	<1000	13.3	<1000	10.8	<1000	18.7	<1000
Chromium	10	1.8	0.50	<10	0.40	<10	0.30	<10	0.30	<10
Cobalt	50	.5								
Copper	25	1	anr							
Iron	300	29	7.9	<300	8.0	<300	7.6	<300	12.0	<300
Lead	5.0	1.1	anr							
Magnesium	5000	74	8.0	<5000	3.0	<5000	15.0	<5000	17.9	<5000
Manganese	15	.7								
Molybdenum	50	.6								
Nickel	40	.5								
Potassium	10000	200	14.4	<10000	-42	<10000	-54	<10000	-4.0	<10000
Selenium	10	2	0.70	<10	0.40	<10	0.60	<10	0.20	<10
Silver	10	.5	anr							
Sodium	10000	500	-2.0	<10000	-7.6	<10000	-12	<10000	8.3	<10000
Strontium	10	.5								
Thallium	10	1.3								
Tin	50	.7								
Titanium	10	.9								
Vanadium	50	.5								
Zinc	20	3	anr							

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: FA7718
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB090913M1.ICP Date Analyzed: 09/09/13 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA11025 Units: ug/l

Time: / Sample ID:			15:06 CCB8		15:57 CCB9		16:47 CCB10	
Metal	RL	IDL	raw	final	raw	final	raw	final
Aluminum	200	15	7.4	<200	14.7	<200	4.4	<200
Antimony	6.0	1.3	-3.7	<6.0	-3.8	<6.0	-2.9	<6.0
Arsenic	10	1.6	0.30	<10	0.80	<10	0.10	<10
Barium	200	1	anr					
Beryllium	4.0	.5						
Cadmium	5.0	.5	0.30	<5.0	0.20	<5.0	0.20	<5.0
Calcium	1000	50	9.7	<1000	9.1	<1000	9.2	<1000
Chromium	10	1.8	0.0	<10	0.20	<10	0.20	<10
Cobalt	50	.5						
Copper	25	1	anr					
Iron	300	29	9.4	<300	6.9	<300	4.7	<300
Lead	5.0	1.1	anr					
Magnesium	5000	74	16.8	<5000	5.0	<5000	-0.90	<5000
Manganese	15	.7						
Molybdenum	50	.6						
Nickel	40	.5						
Potassium	10000	200	22.3	<10000	-23	<10000	-41	<10000
Selenium	10	2	0.50	<10	2.0	<10	1.2	<10
Silver	10	.5	anr					
Sodium	10000	500	-14	<10000	-11	<10000	-7.9	<10000
Strontium	10	.5						
Thallium	10	1.3						
Tin	50	.7						
Titanium	10	.9						
Vanadium	50	.5						
Zinc	20	3	anr					

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA7718
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB090913M1.ICP Date Analyzed: 09/09/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA11025 Units: ug/l

Time:		08:22			09:00			09:58	
Sample ID:	ICV	ICV1		CCV	CCV1		CCV	CCV2	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	38600	96.5	40000	41100	102.8	40000	41000	102.5
Antimony	2000	1890	94.5	2000	1990	99.5	2000	1980	99.0
Arsenic	2000	1900	95.0	2000	2010	100.5	2000	1990	99.5
Barium	anr								
Beryllium									
Cadmium	2000	1940	97.0	2000	2050	102.5	2000	2040	102.0
Calcium	40000	40500	101.3	40000	41400	103.5	40000	41000	102.5
Chromium	2000	1970	98.5	2000	2060	103.0	2000	2050	102.5
Cobalt									
Copper	anr								
Iron	40000	39800	99.5	40000	41500	103.8	40000	41200	103.0
Lead	anr								
Magnesium	40000	38400	96.0	40000	41000	102.5	40000	40800	102.0
Manganese									
Molybdenum									
Nickel									
Potassium	40000	39400	98.5	40000	41000	102.5	40000	40800	102.0
Selenium	2000	1920	96.0	2000	2010	100.5	2000	1990	99.5
Silver	anr								
Sodium	40000	40300	100.8	40000	41800	104.5	40000	41200	103.0
Strontium									
Thallium									
Tin									
Titanium									
Vanadium									
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA7718
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB090913M1.ICP Date Analyzed: 09/09/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA11025 Units: ug/l

Time:		10:49			11:40			12:30	
Sample ID:	CCV	CCV3		CCV	CCV4		CCV	CCV5	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	41400	103.5	40000	39700	99.3	40000	39900	99.8
Antimony	2000	2000	100.0	2000	1930	96.5	2000	1970	98.5
Arsenic	2000	2020	101.0	2000	1950	97.5	2000	1970	98.5
Barium	anr								
Beryllium									
Cadmium	2000	2060	103.0	2000	1990	99.5	2000	2000	100.0
Calcium	40000	41400	103.5	40000	40400	101.0	40000	40100	100.3
Chromium	2000	2060	103.0	2000	2000	100.0	2000	2000	100.0
Cobalt									
Copper	anr								
Iron	40000	41800	104.5	40000	40700	101.8	40000	40700	101.8
Lead	anr								
Magnesium	40000	41300	103.3	40000	40500	101.3	40000	40500	101.3
Manganese									
Molybdenum									
Nickel									
Potassium	40000	42900	107.3	40000	42000	105.0	40000	41700	104.3
Selenium	2000	2010	100.5	2000	1940	97.0	2000	1980	99.0
Silver	anr								
Sodium	40000	42700	106.8	40000	40300	100.8	40000	39700	99.3
Strontium									
Thallium									
Tin									
Titanium									
Vanadium									
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA7718
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB090913M1.ICP Date Analyzed: 09/09/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA11025 Units: ug/l

Time:		13:19			14:11			15:02	
Sample ID:	CCV	CCV6		CCV	CCV7		CCV	CCV8	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	39700	99.3	40000	41000	102.5	40000	40600	101.5
Antimony	2000	1960	98.0	2000	2000	100.0	2000	1980	99.0
Arsenic	2000	1970	98.5	2000	2010	100.5	2000	1990	99.5
Barium	anr								
Beryllium									
Cadmium	2000	1990	99.5	2000	2050	102.5	2000	2030	101.5
Calcium	40000	40000	100.0	40000	41500	103.8	40000	40900	102.3
Chromium	2000	1990	99.5	2000	2060	103.0	2000	2030	101.5
Cobalt									
Copper	anr								
Iron	40000	40500	101.3	40000	42300	105.8	40000	41700	104.3
Lead	anr								
Magnesium	40000	40600	101.5	40000	41500	103.8	40000	40800	102.0
Manganese									
Molybdenum									
Nickel									
Potassium	40000	41400	103.5	40000	41800	104.5	40000	40700	101.8
Selenium	2000	1980	99.0	2000	2010	100.5	2000	2000	100.0
Silver	anr								
Sodium	40000	39500	98.8	40000	40200	100.5	40000	40300	100.8
Strontium									
Thallium									
Tin									
Titanium									
Vanadium									
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA7718
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB090913M1.ICP Date Analyzed: 09/09/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA11025 Units: ug/l

Time:		15:53			16:43	
Sample ID:	CCV	CCV9		CCV	CCV10	
Metal	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	41100	102.8	40000	40100	100.3
Antimony	2000	1970	98.5	2000	1980	99.0
Arsenic	2000	1980	99.0	2000	1990	99.5
Barium	anr					
Beryllium						
Cadmium	2000	2020	101.0	2000	2000	100.0
Calcium	40000	40500	101.3	40000	39900	99.8
Chromium	2000	2020	101.0	2000	1980	99.0
Cobalt						
Copper	anr					
Iron	40000	42400	106.0	40000	41100	102.8
Lead	anr					
Magnesium	40000	39700	99.3	40000	39300	98.3
Manganese						
Molybdenum						
Nickel						
Potassium	40000	40200	100.5	40000	39600	99.0
Selenium	2000	1980	99.0	2000	1990	99.5
Silver	anr					
Sodium	40000	39900	99.8	40000	39400	98.5
Strontium						
Thallium						
Tin						
Titanium						
Vanadium						
Zinc	anr					

(*) Outside of QC limits
(anr) Analyte not requested

HIGH STANDARD CHECK SUMMARY

Login Number: FA7718
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB090913M1.ICP Date Analyzed: 09/09/13 Methods: SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA11025 Units: ug/l

Time:		08:18	
Sample ID:	HSTD	HSTD1	
Metal	True	Results	% Rec
Aluminum	80000	80600	100.8
Antimony	4000	4030	100.8
Arsenic	4000	4030	100.8
Barium	anr		
Beryllium			
Cadmium	4000	4030	100.8
Calcium	80000	81100	101.4
Chromium	4000	4050	101.3
Cobalt			
Copper	anr		
Iron	80000	81600	102.0
Lead	anr		
Magnesium	80000	80200	100.3
Manganese			
Molybdenum			
Nickel			
Potassium	80000	80000	100.0
Selenium	4000	4020	100.5
Silver	anr		
Sodium	80000	80300	100.4
Strontium			
Thallium			
Tin			
Titanium			
Vanadium			
Zinc	anr		

(*) Outside of QC limits
(anr) Analyte not requested

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: FA7718
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB090913M1.ICP Date Analyzed: 09/09/13 Methods: SW846 6010C
QC Limits: CRI 70-130% CRIA 70-130% Run ID: MA11025 Units: ug/l

Time:			08:35		16:39	
Sample ID:	CRI	CRIA	CRIA1		CRIA2	
Metal	True	True	Results	% Rec	Results	% Rec
Aluminum	400	200	199	99.5	219	109.5
Antimony	10	5.0	3.9	78.0	1.0U	0.0* (a)
Arsenic	20	10	10.5	105.0	9.8	98.0
Barium	400	200	anr			
Beryllium	10	5.0				
Cadmium	10	5.0	5.0	100.0	4.9	98.0
Calcium	2000	1000	1030	103.0	1000	100.0
Chromium	20	10	10.0	100.0	9.6	96.0
Cobalt	100	50				
Copper	50	25	anr			
Iron	600	300	305	101.7	331	110.3
Lead	10	5.0	anr			
Magnesium	10000	5000	5030	100.6	4910	98.2
Manganese	30	15				
Molybdenum	100	50				
Nickel	80	40				
Potassium	20000	10000	9850	98.5	9920	99.2
Selenium	20	10	10.5	105.0	10.5	105.0
Silver	20	10	anr			
Sodium	20000	10000	10200	102.0	9890	98.9
Strontium	20	10				
Thallium	20	10				
Tin	100	50				
Titanium	20	10				
Vanadium	100	50				
Zinc	40	20	anr			

(*) Outside of QC limits
(anr) Analyte not requested
(a) Possible instrument baseline drift.

INTERFERING ELEMENT CHECK STANDARDS SUMMARY
Part 1 - ICSA and ICSAB Standards

Login Number: FA7718
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB090913M1.ICP Date Analyzed: 09/09/13 Methods: SW846 6010C
QC Limits: 80 to 120 % Recovery Run ID: MA11025 Units: ug/l

Time:			08:44		08:52	
Sample ID:	ICSA	ICSAB	ICSA1		ICSAB1	
Metal	True	True	Results	% Rec	Results	% Rec
Aluminum	500000	500000	507000	101.4	507000	101.4
Antimony		1000	-0.10		1010	101.0
Arsenic		1000	1.6		1030	103.0
Barium		500	-0.10		515	103.0
Beryllium		500	0.10		505	101.0
Cadmium		1000	0.90		948	94.8
Calcium	500000	500000	478000	95.6	484000	96.8
Chromium		500	-0.70		486	97.2
Cobalt		500	-0.10		469	93.8
Copper		500	0.0		511	102.2
Iron	200000	200000	191000	95.5	187000	93.5
Lead		1000	-0.10		907	90.7
Magnesium	500000	500000	478000	95.6	487000	97.4
Manganese		500	0.90		495	99.0
Molybdenum		1000	0.40		972	97.2
Nickel		1000	0.70		922	92.2
Potassium			110		38.2	
Selenium		1000	0.0		990	99.0
Silver		1000	0.50		974	97.4
Sodium			170		112	
Strontium		1000	12.9		1040	104.0
Thallium		1000	0.40		930	93.0
Tin		1000	0.30		946	94.6
Titanium		1000	-6.0		995	99.5
Vanadium		500	0.50		488	97.6
Zinc		1000	0.0		949	94.9

(*) Outside of QC limits
(anr) Analyte not requested

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA7718
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB091013M1.ICP Date Analyzed: 09/10/13 Methods: SW846 6010C
Analyst: LM Run ID: MA11028
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
07:54	MA11028-STD1	1		STDA
07:59	MA11028-STD2	1		STDB
08:02	MA11028-STD3	1		STDC
08:05	MA11028-STD4	1		STDD
08:10	MA11028-HSTD1	1		
08:17	MA11028-ICV1	1		
08:25	MA11028-ICB1	1		
08:30	MA11028-CRIA1	1		
08:37	MA11028-ICSA1	1		
08:45	MA11028-ICSAB1	1		
08:55	MA11028-CCV1	1		
09:02	MA11028-CCB1	1		
09:08	MP25803-MB1	1		
09:12	MP25803-B1	1		
09:47	ZZZZZZ	1		
09:51	MA11028-CCV2	1		
09:55	MA11028-CCB2	1		
09:59	ZZZZZZ	1		
10:03	ZZZZZZ	1		
10:07	ZZZZZZ	1		
10:12	ZZZZZZ	1		
10:16	ZZZZZZ	1		
10:20	ZZZZZZ	1		
10:24	ZZZZZZ	1		
10:29	ZZZZZZ	1		
10:33	ZZZZZZ	1		
10:38	ZZZZZZ	1		
10:42	MA11028-CCV3	1		
10:46	MA11028-CCB3	1		
10:50	ZZZZZZ	1		
10:54	ZZZZZZ	1		
10:58	ZZZZZZ	1		
11:02	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA7718
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB091013M1.ICP Date Analyzed: 09/10/13 Methods: SW846 6010C
Analyst: LM Run ID: MA11028
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
11:06	ZZZZZZ	1		
11:10	ZZZZZZ	1		
11:14	ZZZZZZ	1		
11:18	ZZZZZZ	5		
11:22	ZZZZZZ	5		
11:26	ZZZZZZ	4		
11:31	MA11028-CCV4	1		
11:35	MA11028-CCB4	1		
11:39	ZZZZZZ	4		
11:43	ZZZZZZ	4		
11:47	ZZZZZZ	4		
11:55	ZZZZZZ	4		
11:59	ZZZZZZ	5		
12:03	ZZZZZZ	4		
12:08	ZZZZZZ	2		
12:12	FA7718-1	5		
12:16	FA7718-2	4		
12:20	MA11028-CCV5	1		
12:24	MA11028-CCB5	1		
12:28	FA7841-1	5		(sample used for QC only; not part of login FA7718)
12:33	MP25801-D1	5		
12:37	MP25801-S1	5		
12:41	MP25801-S2	5		
12:45	MP25801-PS1	5		
12:50	MP25801-SD1	25		
12:54	ZZZZZZ	5		
12:58	ZZZZZZ	5		
13:02	ZZZZZZ	10		
13:06	ZZZZZZ	10		
13:10	MA11028-CCV6	1		
13:15	MA11028-CCB6	1		
13:19	ZZZZZZ	2		
13:23	ZZZZZZ	2		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA7718
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB091013M1.ICP Date Analyzed: 09/10/13 Methods: SW846 6010C
Analyst: LM Run ID: MA11028
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
13:27	MP25807-MB1	1		
13:31	MP25807-B1	1		
13:35	FA7632-1L	1		(sample used for QC only; not part of login FA7718)
13:39	MP25807-D1	1		
13:44	MP25807-SD1	5		
13:48	MP25807-S1	1		
13:52	MP25807-S2	1		
13:56	ZZZZZZ	1		
14:00	MA11028-CCV7	1		
14:05	MA11028-CCB7	1		
14:09	ZZZZZZ	1		
14:13	ZZZZZZ	1		
14:17	MP25807-D2	1		
14:21	MP25807-MB2	1		
14:26	MP25807-B2	1		
14:30	MP25807-SD1	5		
14:34	MP25809-MB1	1		
14:38	MP25809-B1	1		
14:42	FA7930-10	1		(sample used for QC only; not part of login FA7718)
14:46	MP25809-D1	1		
14:50	MA11028-CCV8	1		
14:54	MA11028-CCB8	1		
15:02	MP25809-SD1	5		
15:06	MP25809-PS1	1		
15:10	MP25809-S1	1		
15:14	MP25809-S2	1		
15:18	MP25796-MB1	1		
---------->	Last reportable sample/prep for job FA7718			
15:22	ZZZZZZ	1		
15:26	ZZZZZZ	1		
15:30	ZZZZZZ	1		
15:34	ZZZZZZ	1		
15:39	ZZZZZZ	1		
15:43	MA11028-CCV9	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA7718
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB091013M1.ICP Date Analyzed: 09/10/13 Methods: SW846 6010C
Analyst: LM Run ID: MA11028
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
15:47	MA11028-CCB9	1		
15:51	ZZZZZZ	1		
15:55	ZZZZZZ	1		
15:59	ZZZZZZ	1		
16:03	ZZZZZZ	1		
16:07	ZZZZZZ	1		
16:11	ZZZZZZ	1		
16:16	ZZZZZZ	1		
16:20	ZZZZZZ	1		
16:24	ZZZZZZ	1		
16:28	ZZZZZZ	1		
16:32	MA11028-CCV10	1		
16:36	MA11028-CCB10	1		
16:40	ZZZZZZ	1		
16:45	ZZZZZZ	1		
16:49	ZZZZZZ	1		
16:53	ZZZZZZ	1		
16:57	MA11028-CRIA2	1		
17:01	MA11028-ICSA2	1		
17:05	MA11028-ICSAB2	1		
17:10	MA11028-CCV11	1		
17:14	MA11028-CCB11	1		

----------> Last reportable CCB for job FA7718
Refer to raw data for calibration curve and standards.

INTERNAL STANDARD SUMMARY

Login Number: FA7718
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB091013M1.ICP Date Analyzed: 09/10/13 Methods: SW846 6010C
Analyst: LM Run ID: MA11028
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
07:54	MA11028-STD1	8985	50877	6805	3355
07:59	MA11028-STD2	8734	48877	6671	3104
08:02	MA11028-STD3	8372	47263	6681	2843
08:05	MA11028-STD4	8022	45485	6666	2651
08:10	MA11028-HSTD1	8076	45963	6709	2680
08:17	MA11028-ICV1	8363	46965	6750	2851
08:25	MA11028-ICB1	8977 R	50812 R	6906 R	3347 R
08:30	MA11028-CRIA1	8834	49496	6835	3191
08:37	MA11028-ICSA1	7636	41434	6455	2513
08:45	MA11028-ICSAB1	7659	41591	6487	2500
08:55	MA11028-CCV1	8367	46818	6723	2816
09:02	MA11028-CCB1	8871	50283	6821	3298
09:08	MP25803-MB1	8987	50920	6933	3289
09:12	MP25803-B1	8469	47048	6685	2906
09:47	ZZZZZZ	11127	62061	8783 !	2855
09:51	MA11028-CCV2	8402	46892	6678	2835
09:55	MA11028-CCB2	8973	50508	6723	3320
09:59	ZZZZZZ	11484 !	63622 !	9129 !	2829
10:03	ZZZZZZ	10600	58931	8540	2880
10:07	ZZZZZZ	11524 !	64288 !	9611 !	2714
10:12	ZZZZZZ	11045	61583	8885 !	2812
10:16	ZZZZZZ	11103	61468	8961 !	2776
10:20	ZZZZZZ	8645	48769	6830	3024
10:24	ZZZZZZ	8647	48649	6983	2827
10:29	ZZZZZZ	74610 !	400090 !	61226 !	2621
10:33	ZZZZZZ	8926	50873	6694	3277
10:38	ZZZZZZ	8915	50512	6701	3262
10:42	MA11028-CCV3	8421	47067	6569	2853
10:46	MA11028-CCB3	8882	50672	6710	3323
10:50	ZZZZZZ	8790	51146	6746	3223
10:54	ZZZZZZ	8836	50390	6779	3160
10:58	ZZZZZZ	8899	51033	6823	3255
11:02	ZZZZZZ	8782	50075	6715	3208

INTERNAL STANDARD SUMMARY

Login Number: FA7718
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB091013M1.ICP Date Analyzed: 09/10/13 Methods: SW846 6010C
Analyst: LM Run ID: MA11028
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
11:06	ZZZZZZ	8914	50670	6759	3274
11:10	ZZZZZZ	8903	50623	6703	3270
11:14	ZZZZZZ	9868	55337	7561	3171
11:18	ZZZZZZ	10476	57460	8313	2751
11:22	ZZZZZZ	9476	51569	7533	2768
11:26	ZZZZZZ	8728	47894	6873	2801
11:31	MA11028-CCV4	8335	46180	6494	2820
11:35	MA11028-CCB4	8860	49555	6553	3297
11:39	ZZZZZZ	9413	51597	7444	2754
11:43	ZZZZZZ	8932	49376	7125	2714
11:47	ZZZZZZ	8983	49589	7067	2806
11:55	ZZZZZZ	8294	46213	6473	2837
11:59	ZZZZZZ	8360	46755	6494	2884
12:03	ZZZZZZ	9195	50803	7294	2793
12:08	ZZZZZZ	7914	44363	6405	2679
12:12	FA7718-1	8818	48298	7094	2718
12:16	FA7718-2	8360	46828	6511	2889
12:20	MA11028-CCV5	8249	46602	6404	2797
12:24	MA11028-CCB5	8837	49964	6539	3297
12:28	FA7841-1	9507	52592	7263	2945
12:33	MP25801-D1	9492	52265	7307	2906
12:37	MP25801-S1	9477	52507	7261	2929
12:41	MP25801-S2	9855	54547	7607	2868
12:45	MP25801-PS1	9519	52916	7366	2925
12:50	MP25801-SD1	9042	50678	6840	3192
12:54	ZZZZZZ	9684	53789	7598	2986
12:58	ZZZZZZ	10237	56846	8136	2976
13:02	ZZZZZZ	9596	53408	7360	3240
13:06	ZZZZZZ	9636	53715	7348	3246
13:10	MA11028-CCV6	8434	47200	6611	2844
13:15	MA11028-CCB6	8998	50609	6745	3332
13:19	ZZZZZZ	10238	56459	8374	2731
13:23	ZZZZZZ	10561	58270	8458	2861

INTERNAL STANDARD SUMMARY

Login Number: FA7718
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB091013M1.ICP Date Analyzed: 09/10/13 Methods: SW846 6010C
Analyst: LM Run ID: MA11028
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
13:27	MP25807-MB1	9174	52172	6979	3372
13:31	MP25807-B1	8803	49004	6932	3034
13:35	FA7632-1L	8781	48203	6892	2999
13:39	MP25807-D1	9027	50275	7374	3091
13:44	MP25807-SD1	No results reported for the elements associated with this internal standard.			
13:48	MP25807-S1	8896	50405	7599	2979
13:52	MP25807-S2	8948	50728	7684	3005
13:56	ZZZZZZ	8960	50885	7772	3080
14:00	MA11028-CCV7	8912	51265	7615	3023
14:05	MA11028-CCB7	9545	55740	7799	3555
14:09	ZZZZZZ	9030	50982	7751	3094
14:13	ZZZZZZ	9073	51437	7768	3123
14:17	MP25807-D2	9035	51576	7671	3107
14:21	MP25807-MB2	8953	50792	7698	3102
14:26	MP25807-B2	8809	49740	7579	2969
14:30	MP25807-SD1	9217	52684	7658	3294
14:34	MP25809-MB1	9319	53253	7663	3410
14:38	MP25809-B1	9054	51836	7624	3133
14:42	FA7930-10	9322	54467	7638	3369
14:46	MP25809-D1	9420	54825	7703	3401
14:50	MA11028-CCV8	8898	50735	7530	3005
14:54	MA11028-CCB8	9453	55055	7700	3522
15:02	MP25809-SD1	9450	54529	7508	3475
15:06	MP25809-PS1	9173	52646	7490	3220
15:10	MP25809-S1	8991	50967	7431	3054
15:14	MP25809-S2	8973	50973	7330	3037
15:18	MP25796-MB1	9448	54284	7570	3489
15:22	ZZZZZZ	9841	55749	7988	3249
15:26	ZZZZZZ	9420	53846	7495	3386
15:30	ZZZZZZ	9380	53077	7591	3239
15:34	ZZZZZZ	9461	53478	7662	3216
15:39	ZZZZZZ	9357	53851	7488	3368
15:43	MA11028-CCV9	8869	50382	7336	2990

INTERNAL STANDARD SUMMARY

Login Number: FA7718
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB091013M1.ICP Date Analyzed: 09/10/13 Methods: SW846 6010C
Analyst: LM Run ID: MA11028
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
15:47	MA11028-CCB9	9440	54185	7467	3497
15:51	ZZZZZZ	9594	54611	7837	3343
15:55	ZZZZZZ	9434	54956	7746	3366
15:59	ZZZZZZ	9381	54658	7563	3388
16:03	ZZZZZZ	9618	54218	7850	3194
16:07	ZZZZZZ	9544	54565	7834	3313
16:11	ZZZZZZ	9439	52586	7671	3348
16:16	ZZZZZZ	9361	53425	7640	3369
16:20	ZZZZZZ	9477	52799	7656	3353
16:24	ZZZZZZ	9524	53344	7775	3264
16:28	ZZZZZZ	9463	53004	7775	3268
16:32	MA11028-CCV10	8931	50345	7563	2990
16:36	MA11028-CCB10	9431	53525	7607	3483
16:40	ZZZZZZ	9318	53684	7513	3399
16:45	ZZZZZZ	9155	55063	7520	3339
16:49	ZZZZZZ	9460	53898	7588	3270
16:53	ZZZZZZ	9353	53447	7589	3346
16:57	MA11028-CRIA2	9373	53886	7699	3379
17:01	MA11028-ICSA2	8144	44981	7211	2673
17:05	MA11028-ICSAB2	8074	44811	7094	2629
17:10	MA11028-CCV11	8816	50049	7323	2971
17:14	MA11028-CCB11	9352	53396	7421	3476

R = Reference for ISTD limits. ! = Outside limits.

LEGEND:

Istd#	Parameter	Limits
Istd#1	Yttrium (2243)	60-125 %
Istd#2	Yttrium (3600)	60-125 %
Istd#3	Yttrium (3710)	60-125 %
Istd#4	Indium	60-125 %

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: FA7718
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB091013M1.ICP Date Analyzed: 09/10/13 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA11028 Units: ug/l

Time: / Sample ID:			08:25 ICB1		09:02 CCB1		09:55 CCB2		10:46 CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	15	-13	<200	-3.3	<200	4.6	<200	2.4	<200
Antimony	6.0	1.3	2.0	<6.0	0.90	<6.0	-2.0	<6.0	-1.4	<6.0
Arsenic	10	1.6	0.60	<10	0.30	<10	-0.30	<10	0.20	<10
Barium	200	1	anr							
Beryllium	4.0	.5	anr							
Cadmium	5.0	.5	-0.10	<5.0	0.10	<5.0	0.10	<5.0	0.10	<5.0
Calcium	1000	50	0.0	<1000	4.5	<1000	11.8	<1000	9.9	<1000
Chromium	10	1.8	0.10	<10	0.10	<10	0.10	<10	0.20	<10
Cobalt	50	.5								
Copper	25	1	anr							
Iron	300	29	-2.3	<300	1.2	<300	12.0	<300	5.9	<300
Lead	5.0	1.1	anr							
Magnesium	5000	74	-23	<5000	-5.8	<5000	-8.6	<5000	-11	<5000
Manganese	15	.7								
Molybdenum	50	.6								
Nickel	40	.5	anr							
Potassium	10000	200	1.9	<10000	9.0	<10000	48.4	<10000	18.9	<10000
Selenium	10	2	0.40	<10	0.60	<10	0.80	<10	0.70	<10
Silver	10	.5	anr							
Sodium	10000	500	22.6	<10000	48.4	<10000	35.0	<10000	24.3	<10000
Strontium	10	.5								
Thallium	10	1.3	anr							
Tin	50	.7								
Titanium	10	.9								
Vanadium	50	.5								
Zinc	20	3	anr							

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: FA7718
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB091013M1.ICP Date Analyzed: 09/10/13 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA11028 Units: ug/l

Time: / Sample ID:			11:35 CCB4		12:24 CCB5		13:15 CCB6		14:05 CCB7	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	15	3.9	<200	-1.2	<200	3.9	<200	18.3	<200
Antimony	6.0	1.3	-1.5	<6.0	-1.4	<6.0	-1.7	<6.0	-1.3	<6.0
Arsenic	10	1.6	0.40	<10	0.30	<10	-0.10	<10	0.20	<10
Barium	200	1	anr							
Beryllium	4.0	.5	anr							
Cadmium	5.0	.5	0.0	<5.0	0.10	<5.0	0.0	<5.0	0.10	<5.0
Calcium	1000	50	10.6	<1000	8.2	<1000	5.6	<1000	13.0	<1000
Chromium	10	1.8	0.40	<10	0.30	<10	0.10	<10	0.30	<10
Cobalt	50	.5								
Copper	25	1	anr							
Iron	300	29	5.1	<300	5.3	<300	6.8	<300	8.9	<300
Lead	5.0	1.1	anr							
Magnesium	5000	74	-10	<5000	-30	<5000	-3.2	<5000	-24	<5000
Manganese	15	.7								
Molybdenum	50	.6								
Nickel	40	.5	anr							
Potassium	10000	200	3.3	<10000	48.3	<10000	78.2	<10000	103	<10000
Selenium	10	2	0.0	<10	1.8	<10	0.60	<10	0.90	<10
Silver	10	.5	anr							
Sodium	10000	500	44.6	<10000	103	<10000	37.0	<10000	150	<10000
Strontium	10	.5								
Thallium	10	1.3	anr							
Tin	50	.7								
Titanium	10	.9								
Vanadium	50	.5								
Zinc	20	3	anr							

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: FA7718
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB091013M1.ICP Date Analyzed: 09/10/13 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA11028 Units: ug/l

Time: / Sample ID:			14:54 CCB8		15:47 CCB9		16:36 CCB10		17:14 CCB11	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	15	15.0	<200	12.3	<200	12.2	<200	15.2	<200
Antimony	6.0	1.3	-2.3	<6.0	-1.7	<6.0	-2.8	<6.0	-2.1	<6.0
Arsenic	10	1.6	0.10	<10	0.40	<10	0.40	<10	-0.30	<10
Barium	200	1	anr							
Beryllium	4.0	.5	anr							
Cadmium	5.0	.5	0.20	<5.0	0.10	<5.0	0.10	<5.0	0.10	<5.0
Calcium	1000	50	12.1	<1000	6.4	<1000	6.5	<1000	15.8	<1000
Chromium	10	1.8	0.0	<10	0.10	<10	0.10	<10	0.10	<10
Cobalt	50	.5								
Copper	25	1	anr							
Iron	300	29	7.8	<300	7.0	<300	8.9	<300	13.3	<300
Lead	5.0	1.1	anr							
Magnesium	5000	74	-32	<5000	-19	<5000	-11	<5000	-0.60	<5000
Manganese	15	.7								
Molybdenum	50	.6								
Nickel	40	.5	anr							
Potassium	10000	200	30.1	<10000	2.7	<10000	-16	<10000	34.4	<10000
Selenium	10	2	0.70	<10	2.1	<10	1.6	<10	-0.90	<10
Silver	10	.5	anr							
Sodium	10000	500	93.3	<10000	46.3	<10000	43.0	<10000	61.5	<10000
Strontium	10	.5								
Thallium	10	1.3	anr							
Tin	50	.7								
Titanium	10	.9								
Vanadium	50	.5								
Zinc	20	3	anr							

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA7718
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB091013M1.ICP Date Analyzed: 09/10/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA11028 Units: ug/l

Time:		08:17			08:55			09:51	
Sample ID:	ICV	ICV1		CCV	CCV1		CCV	CCV2	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	39600	99.0	40000	40800	102.0	40000	40900	102.3
Antimony	2000	1970	98.5	2000	1960	98.0	2000	1960	98.0
Arsenic	2000	1970	98.5	2000	1960	98.0	2000	1960	98.0
Barium	anr								
Beryllium	anr								
Cadmium	2000	1980	99.0	2000	2000	100.0	2000	2010	100.5
Calcium	40000	40900	102.3	40000	41000	102.5	40000	40900	102.3
Chromium	2000	2000	100.0	2000	2010	100.5	2000	2010	100.5
Cobalt									
Copper	anr								
Iron	40000	40000	100.0	40000	40600	101.5	40000	40800	102.0
Lead	anr								
Magnesium	40000	39400	98.5	40000	40300	100.8	40000	39900	99.8
Manganese									
Molybdenum									
Nickel	anr								
Potassium	40000	40400	101.0	40000	41100	102.8	40000	41400	103.5
Selenium	2000	1990	99.5	2000	1970	98.5	2000	1960	98.0
Silver	anr								
Sodium	40000	41000	102.5	40000	40900	102.3	40000	40800	102.0
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium									
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA7718
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB091013M1.ICP Date Analyzed: 09/10/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA11028 Units: ug/l

Time:		10:42			11:31			12:20	
Sample ID:	CCV	CCV3		CCV	CCV4		CCV	CCV5	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	40700	101.8	40000	41100	102.8	40000	40900	102.3
Antimony	2000	2000	100.0	2000	1990	99.5	2000	2020	101.0
Arsenic	2000	1990	99.5	2000	1980	99.0	2000	2010	100.5
Barium	anr								
Beryllium	anr								
Cadmium	2000	1990	99.5	2000	2010	100.5	2000	2030	101.5
Calcium	40000	40700	101.8	40000	41100	102.8	40000	40800	102.0
Chromium	2000	2000	100.0	2000	2030	101.5	2000	2020	101.0
Cobalt									
Copper	anr								
Iron	40000	40100	100.3	40000	40700	101.8	40000	40500	101.3
Lead	anr								
Magnesium	40000	40100	100.3	40000	40400	101.0	40000	40600	101.5
Manganese									
Molybdenum									
Nickel	anr								
Potassium	40000	40400	101.0	40000	41500	103.8	40000	41500	103.8
Selenium	2000	2000	100.0	2000	1990	99.5	2000	2010	100.5
Silver	anr								
Sodium	40000	40300	100.8	40000	41100	102.8	40000	41400	103.5
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium									
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA7718
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB091013M1.ICP Date Analyzed: 09/10/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA11028 Units: ug/l

Time:		13:10			14:00			14:50	
Sample ID:	CCV	CCV6		CCV	CCV7		CCV	CCV8	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	41600	104.0	40000	40300	100.8	40000	40900	102.3
Antimony	2000	2010	100.5	2000	2020	101.0	2000	2030	101.5
Arsenic	2000	2000	100.0	2000	1990	99.5	2000	2010	100.5
Barium	anr								
Beryllium	anr								
Cadmium	2000	2030	101.5	2000	1980	99.0	2000	2010	100.5
Calcium	40000	41400	103.5	40000	39900	99.8	40000	40500	101.3
Chromium	2000	2030	101.5	2000	1950	97.5	2000	1990	99.5
Cobalt									
Copper	anr								
Iron	40000	41400	103.5	40000	39900	99.8	40000	40700	101.8
Lead	anr								
Magnesium	40000	40600	101.5	40000	38500	96.3	40000	39000	97.5
Manganese									
Molybdenum									
Nickel	anr								
Potassium	40000	42600	106.5	40000	41000	102.5	40000	41800	104.5
Selenium	2000	2010	100.5	2000	2010	100.5	2000	2030	101.5
Silver	anr								
Sodium	40000	41900	104.8	40000	40600	101.5	40000	41100	102.8
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium									
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA7718
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB091013M1.ICP Date Analyzed: 09/10/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA11028 Units: ug/l

Time:		15:43			16:32			17:10	
Sample ID:	CCV	CCV9		CCV	CCV10		CCV	CCV11	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	41100	102.8	40000	41200	103.0	40000	40800	102.0
Antimony	2000	2010	100.5	2000	1990	99.5	2000	2000	100.0
Arsenic	2000	1990	99.5	2000	1970	98.5	2000	1990	99.5
Barium	anr								
Beryllium	anr								
Cadmium	2000	2000	100.0	2000	1980	99.0	2000	2000	100.0
Calcium	40000	40700	101.8	40000	40800	102.0	40000	40400	101.0
Chromium	2000	2000	100.0	2000	1970	98.5	2000	1980	99.0
Cobalt									
Copper	anr								
Iron	40000	40900	102.3	40000	40700	101.8	40000	40600	101.5
Lead	anr								
Magnesium	40000	39300	98.3	40000	37500	93.8	40000	38800	97.0
Manganese									
Molybdenum									
Nickel	anr								
Potassium	40000	42400	106.0	40000	41200	103.0	40000	41700	104.3
Selenium	2000	2000	100.0	2000	1980	99.0	2000	2000	100.0
Silver	anr								
Sodium	40000	41500	103.8	40000	39600	99.0	40000	40800	102.0
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium									
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

HIGH STANDARD CHECK SUMMARY

Login Number: FA7718
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB091013M1.ICP Date Analyzed: 09/10/13 Methods: SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA11028 Units: ug/l

Time:		08:10	
Sample ID:	HSTD	HSTD1	
Metal	True	Results	% Rec
Aluminum	80000	79600	99.5
Antimony	4000	4070	101.8
Arsenic	4000	4050	101.3
Barium	anr		
Beryllium	anr		
Cadmium	4000	3990	99.8
Calcium	80000	79100	98.9
Chromium	4000	3970	99.3
Cobalt			
Copper	anr		
Iron	80000	79500	99.4
Lead	anr		
Magnesium	80000	78800	98.5
Manganese			
Molybdenum			
Nickel	anr		
Potassium	80000	79400	99.3
Selenium	4000	4060	101.5
Silver	anr		
Sodium	80000	79000	98.8
Strontium			
Thallium	anr		
Tin			
Titanium			
Vanadium			
Zinc	anr		

(*) Outside of QC limits
(anr) Analyte not requested

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: FA7718
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB091013M1.ICP Date Analyzed: 09/10/13 Methods: SW846 6010C
QC Limits: CRI 70-130% CRIA 70-130% Run ID: MA11028 Units: ug/l

Time:			08:30		16:57	
Sample ID:	CRI	CRIA	CRIA1		CRIA2	
Metal	True	True	Results	% Rec	Results	% Rec
Aluminum	400	200	195	97.5	202	101.0
Antimony	10	5.0	5.1	102.0	1.2U	0.0* (a)
Arsenic	20	10	10.1	101.0	9.7	97.0
Barium	400	200	anr			
Beryllium	10	5.0	anr			
Cadmium	10	5.0	4.9	98.0	4.9	98.0
Calcium	2000	1000	1010	101.0	986	98.6
Chromium	20	10	9.6	96.0	9.5	95.0
Cobalt	100	50				
Copper	50	25	anr			
Iron	600	300	302	100.7	297	99.0
Lead	10	5.0	anr			
Magnesium	10000	5000	4950	99.0	4770	95.4
Manganese	30	15				
Molybdenum	100	50				
Nickel	80	40	anr			
Potassium	20000	10000	9830	98.3	9860	98.6
Selenium	20	10	10.4	104.0	10.6	106.0
Silver	20	10	anr			
Sodium	20000	10000	9910	99.1	9860	98.6
Strontium	20	10				
Thallium	20	10	anr			
Tin	100	50				
Titanium	20	10				
Vanadium	100	50				
Zinc	40	20	anr			

(*) Outside of QC limits
(anr) Analyte not requested
(a) Possible instrument baseline drift.

INTERFERING ELEMENT CHECK STANDARDS SUMMARY
Part 1 - ICSA and ICSAB Standards

Login Number: FA7718
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB091013M1.ICP Date Analyzed: 09/10/13 Methods: SW846 6010C
QC Limits: 80 to 120 % Recovery Run ID: MA11028 Units: ug/l

Time:			08:37		08:45		17:01		17:05	
Sample ID:	ICSA	ICSAB	ICSA1		ICSAB1		ICSA2		ICSAB2	
Metal	True	True	Results	% Rec	Results	% Rec	Results	% Rec	Results	% Rec
Aluminum	500000	500000	515000	103.0	496000	99.2	510000	102.0	504000	100.8
Antimony		1000	1.2		980	98.0	-1.1		1010	101.0
Arsenic		1000	0.10		1010	101.0	-0.60		1020	102.0
Barium		500	-0.40		511	102.2	-0.30		530	106.0
Beryllium		500	0.0		488	97.6	0.0		489	97.8
Cadmium		1000	0.40		921	92.1	0.80		912	91.2
Calcium	500000	500000	481000	96.2	484000	96.8	473000	94.6	477000	95.4
Chromium		500	0.10		475	95.0	0.10		467	93.4
Cobalt		500	-0.10		455	91.0	-0.10		454	90.8
Copper		500	0.0		508	101.6	0.10		516	103.2
Iron	200000	200000	189000	94.5	188000	94.0	184000	92.0	185000	92.5
Lead		1000	0.0		927	92.7	-6.7		906	90.6
Magnesium	500000	500000	480000	96.0	475000	95.0	462000	92.4	462000	92.4
Manganese		500	0.10		498	99.6	0.20		461	92.2
Molybdenum		1000	0.50		944	94.4	0.30		942	94.2
Nickel		1000	0.10		902	90.2	0.20		901	90.1
Potassium			83.3		28.3		47.2		38.8	
Selenium		1000	0.80		964	96.4	-2.5		975	97.5
Silver		1000	0.30		965	96.5	-0.10		967	96.7
Sodium			187		167		163		157	
Strontium		1000	12.2		1010	101.0	12.4		1050	105.0
Thallium		1000	-0.50		942	94.2	-0.10		931	93.1
Tin		1000	-0.40		915	91.5	-0.70		901	90.1
Titanium		1000	-5.0		979	97.9	-5.6		997	99.7
Vanadium		500	0.60		476	95.2	0.10		473	94.6
Zinc		1000	0.0		924	92.4	-1.1		899	89.9

(*) Outside of QC limits
(anr) Analyte not requested

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA7718
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA091013M1.ICP Date Analyzed: 09/10/13 Methods: SW846 6010C
Analyst: LM Run ID: MA11029
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
07:55	MA11029-STD1	1		STDA
07:58	MA11029-STD2	1		STDB
08:02	MA11029-STD3	1		STDC
08:06	MA11029-STD4	1		STDD
08:10	MA11029-HSTD1	1		
08:17	MA11029-ICV1	1		
08:26	MA11029-ICB1	1		
08:30	MA11029-CRIA1	1		
08:38	MA11029-ICSA1	1		
08:46	MA11029-ICSAB1	1		
08:55	MA11029-CCV1	1		
09:02	MA11029-CCB1	1		
09:08	MP25802-MB1	1		
09:12	MP25802-B1	1		
09:17	FA7752-3F	1		(sample used for QC only; not part of login FA7718)
09:21	MP25802-D1	1		
09:26	MP25802-SD1	5		
09:30	MP25802-PS1	1		
09:35	MP25802-S1	1		
09:39	MP25802-S2	1		
09:43	ZZZZZZ	1		
09:48	ZZZZZZ	1		
09:52	MA11029-CCV2	1		
09:56	MA11029-CCB2	1		
10:01	ZZZZZZ	1		
10:05	ZZZZZZ	1		
10:10	ZZZZZZ	1		
10:14	ZZZZZZ	1		
10:19	ZZZZZZ	1		
10:23	ZZZZZZ	1		
10:28	ZZZZZZ	1		
10:32	ZZZZZZ	1		
10:37	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA7718
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA091013M1.ICP Date Analyzed: 09/10/13 Methods: SW846 6010C
Analyst: LM Run ID: MA11029
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
10:41	ZZZZZZ	1		
10:45	MA11029-CCV3	1		
10:49	MA11029-CCB3	1		
10:54	ZZZZZZ	1		
10:58	ZZZZZZ	1		
11:03	FA7718-5	1		
11:07	ZZZZZZ	1		
11:12	ZZZZZZ	1		
11:16	ZZZZZZ	1		
11:21	ZZZZZZ	1		
11:25	MP25802-MB2A	1		
11:29	MP25802-MB3A	1		
---------->	Last reportable sample/prep for job FA7718			
11:34	ZZZZZZ	100		
11:38	MA11029-CCV4	1		
11:42	MA11029-CCB4	1		
11:47	ZZZZZZ	5		
11:51	ZZZZZZ	5		
11:56	ZZZZZZ	10		
12:00	ZZZZZZ	10		
12:23	MP25806-MB1	1		
12:27	MP25806-B1	1		
12:31	MA11029-CCV5	1		
12:35	MA11029-CCB5	1		
12:40	FA7757-1A	1		(sample used for QC only; not part of login FA7718)
12:44	MP25806-D1	1		
12:49	MP25806-SD1	5		
12:53	MP25806-PS1	1		
12:57	MP25806-S1	1		
13:02	MP25806-S2	1		
13:06	ZZZZZZ	1		
13:11	ZZZZZZ	1		
13:15	ZZZZZZ	1		
13:20	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA7718
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA091013M1.ICP Date Analyzed: 09/10/13 Methods: SW846 6010C
Analyst: LM Run ID: MA11029
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
13:24	MA11029-CCV6	1		
13:28	MA11029-CCB6	1		
13:33	ZZZZZZ	1		
13:37	ZZZZZZ	1		
13:42	ZZZZZZ	1		
13:46	ZZZZZZ	1		
13:51	ZZZZZZ	1		
13:55	ZZZZZZ	1		
14:00	ZZZZZZ	1		
14:04	ZZZZZZ	1		
14:09	ZZZZZZ	1		
14:13	ZZZZZZ	1		
14:18	MA11029-CCV7	1		
14:22	MA11029-CCB7	1		
14:26	ZZZZZZ	1		
14:31	ZZZZZZ	1		
14:35	ZZZZZZ	1		
14:40	ZZZZZZ	1		
14:45	ZZZZZZ	1		
14:49	MP25808-MB1	1		
14:54	MP25808-B1	1		
14:58	FA7871-1	1		(sample used for QC only; not part of login FA7718)
15:02	MP25808-D1	1		
15:07	MP25808-SD1	5		
15:11	MA11029-CCV8	1		
15:15	MA11029-CCB8	1		
15:20	MP25808-PS1	1		
15:24	MP25808-S1	1		
15:28	MP25808-S2	1		
15:33	ZZZZZZ	1		
15:37	ZZZZZZ	1		
15:41	ZZZZZZ	1		
15:46	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA7718
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA091013M1.ICP Date Analyzed: 09/10/13 Methods: SW846 6010C
Analyst: LM Run ID: MA11029
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
15:50	ZZZZZZ	1		
15:55	ZZZZZZ	1		
15:59	ZZZZZZ	1		
16:04	MA11029-CCV9	1		
16:08	MA11029-CCB9	1		
16:12	ZZZZZZ	1		
16:17	ZZZZZZ	1		
16:21	ZZZZZZ	1		
16:26	ZZZZZZ	1		
16:30	ZZZZZZ	1		
16:34	ZZZZZZ	1		
16:39	ZZZZZZ	1		
16:43	ZZZZZZ	1		
16:48	ZZZZZZ	1		
16:52	ZZZZZZ	1		
16:56	MA11029-CCV10	1		
17:01	MA11029-CCB10	1		
17:05	ZZZZZZ	1		
17:10	MP25808-MB2A	1		
17:14	MA11029-CRIA2	1		
17:18	MA11029-ICSA2	1		
17:23	MA11029-ICSAB2	1		
17:28	MA11029-CCV11	1		
17:32	MA11029-CCB11	1		

----------> Last reportable CCB for job FA7718
Refer to raw data for calibration curve and standards.

INTERNAL STANDARD SUMMARY

Login Number: FA7718
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA091013M1.ICP Date Analyzed: 09/10/13 Methods: SW846 6010C
Analyst: LM Run ID: MA11029
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
07:55	MA11029-STD1	4862	34231	7697	2102
07:58	MA11029-STD2	4813	33653	7677	1963
08:02	MA11029-STD3	4608	32403	7576	1779
08:06	MA11029-STD4	4415	31265	7513	1640
08:10	MA11029-HSTD1	4409	31187	7541	1642
08:17	MA11029-ICV1	4549	31867	7584	1770
08:26	MA11029-ICB1	4802 R	33815 R	7623 R	2090 R
08:30	MA11029-CRIA1	4748	33246	7611	2002
08:38	MA11029-ICSA1	4151	28384	7269	1519
08:46	MA11029-ICSAB1	4136	28571	7246	1498
08:55	MA11029-CCV1	4561	32116	7473	1770
09:02	MA11029-CCB1	4773	33734	7484	2075
09:08	MP25802-MB1	4769	34187	7619	2069
09:12	MP25802-B1	4599	32225	7515	1837
09:17	FA7752-3F	4355	30850	7421	1777
09:21	MP25802-D1	4372	30945	7486	1779
09:26	MP25802-SD1	4665	32989	7486	1966
09:30	MP25802-PS1	4352	30889	7429	1746
09:35	MP25802-S1	4380	30953	7435	1682
09:39	MP25802-S2	4379	30899	7396	1678
09:43	ZZZZZZ	4597	32423	7476	1858
09:48	ZZZZZZ	4660	32970	7533	1935
09:52	MA11029-CCV2	4543	31915	7418	1757
09:56	MA11029-CCB2	4800	33975	7584	2080
10:01	ZZZZZZ	4058	28469	7149	1578
10:05	ZZZZZZ	4569	32070	7525	1854
10:10	ZZZZZZ	4539	32103	7539	1827
10:14	ZZZZZZ	4350	30566	7410	1720
10:19	ZZZZZZ	4320	30301	7415	1716
10:23	ZZZZZZ	4613	32778	7543	1929
10:28	ZZZZZZ	4645	32892	7503	1926
10:32	ZZZZZZ	4613	32622	7439	1909
10:37	ZZZZZZ	4484	32009	7472	1819

INTERNAL STANDARD SUMMARY

Login Number: FA7718
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA091013M1.ICP Date Analyzed: 09/10/13 Methods: SW846 6010C
Analyst: LM Run ID: MA11029
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
10:41	ZZZZZZ	4817	34336	8100	1815
10:45	MA11029-CCV3	4531	32000	7405	1758
10:49	MA11029-CCB3	4792	34091	7512	2062
10:54	ZZZZZZ	4654	32997	7429	1930
10:58	ZZZZZZ	4783	34120	7623	2076
11:03	FA7718-5	4312	30573	7335	1707
11:07	ZZZZZZ	4554	32396	7531	1868
11:12	ZZZZZZ	4649	32911	7527	1918
11:16	ZZZZZZ	4698	33321	7504	1924
11:21	ZZZZZZ	4416	31643	7435	1795
11:25	MP25802-MB2A	4761	34015	7506	2047
11:29	MP25802-MB3A	4764	34036	7525	2046
11:34	ZZZZZZ	4757	33580	7533	1974
11:38	MA11029-CCV4	4531	31969	7372	1748
11:42	MA11029-CCB4	4761	33839	7479	2055
11:47	ZZZZZZ	4837	33728	7972	1700
11:51	ZZZZZZ	4985	34681	8134	1734
11:56	ZZZZZZ	4787	33553	7674	1876
12:00	ZZZZZZ	4803	33500	7827	1796
12:23	MP25806-MB1	4819	34443	7523	2072
12:27	MP25806-B1	4615	32465	7454	1837
12:31	MA11029-CCV5	4544	32023	7403	1751
12:35	MA11029-CCB5	4771	33817	7446	2062
12:40	FA7757-1A	4428	31157	7302	1761
12:44	MP25806-D1	4430	31207	7346	1765
12:49	MP25806-SD1	4655	32836	7478	1937
12:53	MP25806-PS1	4432	31189	7360	1739
12:57	MP25806-S1	4430	31313	7398	1687
13:02	MP25806-S2	4445	31430	7356	1699
13:06	ZZZZZZ	4523	32101	7415	1816
13:11	ZZZZZZ	4406	31114	7313	1757
13:15	ZZZZZZ	4753	33933	7517	2043
13:20	ZZZZZZ	4582	32206	7641	1721

INTERNAL STANDARD SUMMARY

Login Number: FA7718
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA091013M1.ICP Date Analyzed: 09/10/13 Methods: SW846 6010C
Analyst: LM Run ID: MA11029
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
13:24	MA11029-CCV6	4507	31730	7370	1743
13:28	MA11029-CCB6	4746	33709	7445	2052
13:33	ZZZZZZ	4764	33867	7531	2055
13:37	ZZZZZZ	4652	33018	7497	1926
13:42	ZZZZZZ	4282	30208	7284	1685
13:46	ZZZZZZ	4413	31043	7355	1722
13:51	ZZZZZZ	4498	31978	7398	1841
13:55	ZZZZZZ	4326	30712	7304	1730
14:00	ZZZZZZ	4542	32230	7479	1816
14:04	ZZZZZZ	4627	32536	7543	1892
14:09	ZZZZZZ	4642	32547	7594	1866
14:13	ZZZZZZ	4610	32305	7460	1885
14:18	MA11029-CCV7	4499	31705	7364	1743
14:22	MA11029-CCB7	4750	33427	7430	2057
14:26	ZZZZZZ	4640	32319	7621	1863
14:31	ZZZZZZ	4260	30033	7368	1620
14:35	ZZZZZZ	4251	30211	7372	1622
14:40	ZZZZZZ	4426	31540	7406	1721
14:45	ZZZZZZ	4422	31491	7368	1719
14:49	MP25808-MB1	4843	35217	7592	2096
14:54	MP25808-B1	4632	33144	7398	1842
14:58	FA7871-1	4637	33555	7442	1825
15:02	MP25808-D1	4630	33391	7459	1835
15:07	MP25808-SD1	4764	34202	7347	1979
15:11	MA11029-CCV8	4535	32555	7250	1747
15:15	MA11029-CCB8	4785	34677	7438	2060
15:20	MP25808-PS1	4633	33430	7422	1794
15:24	MP25808-S1	4543	32601	7354	1724
15:28	MP25808-S2	4534	32564	7292	1722
15:33	ZZZZZZ	4326	31149	7239	1648
15:37	ZZZZZZ	4630	33565	7436	1881
15:41	ZZZZZZ	4601	33238	7349	1887
15:46	ZZZZZZ	4533	32776	7244	1851

INTERNAL STANDARD SUMMARY

Login Number: FA7718
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA091013M1.ICP Date Analyzed: 09/10/13 Methods: SW846 6010C
Analyst: LM Run ID: MA11029
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
15:50	ZZZZZZ	4817	34992	7543	2015
15:55	ZZZZZZ	5058	36609	7896	1988
15:59	ZZZZZZ	4913	35670	7652	1962
16:04	MA11029-CCV9	4509	32582	7206	1728
16:08	MA11029-CCB9	4767	34507	7336	2047
16:12	ZZZZZZ	4809	34736	7612	1934
16:17	ZZZZZZ	4772	34376	7457	1925
16:21	ZZZZZZ	4914	35521	7655	1957
16:26	ZZZZZZ	4778	34512	7470	1944
16:30	ZZZZZZ	5015	35858	7905	1900
16:34	ZZZZZZ	4901	35017	7626	1920
16:39	ZZZZZZ	4440	32206	7320	1804
16:43	ZZZZZZ	4659	33639	7362	1948
16:48	ZZZZZZ	4655	33532	7309	1950
16:52	ZZZZZZ	4668	33867	7413	1919
16:56	MA11029-CCV10	4532	32706	7252	1737
17:01	MA11029-CCB10	4781	34619	7253	2050
17:05	ZZZZZZ	4639	33414	7279	1908
17:10	MP25808-MB2A	4744	34547	7349	2034
17:14	MA11029-CRIA2	4702	33794	7295	1961
17:18	MA11029-ICSA2	4140	28940	6958	1501
17:23	MA11029-ICSAB2	4123	29053	6943	1488
17:28	MA11029-CCV11	4538	32749	7254	1743
17:32	MA11029-CCB11	4795	34665	7296	2058

R = Reference for ISTD limits. ! = Outside limits.

LEGEND:

Istd#	Parameter	Limits
Istd#1	Yttrium (2243)	60-125 %
Istd#2	Yttrium (3600)	60-125 %
Istd#3	Yttrium (3710)	60-125 %
Istd#4	Indium	60-125 %

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: FA7718
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA091013M1.ICP Date Analyzed: 09/10/13 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA11029 Units: ug/l

Time: / Sample ID:			08:26 ICB1		09:02 CCB1		09:56 CCB2		10:49 CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	15	-1.5	<200	-3.8	<200	2.7	<200	-2.2	<200
Antimony	6.0	1.3	-0.20	<6.0	0.40	<6.0	0.30	<6.0	-0.10	<6.0
Arsenic	10	1.6	0.90	<10	0.20	<10	0.70	<10	0.20	<10
Barium	200	1	anr							
Beryllium	4.0	.5								
Cadmium	5.0	.5	0.0	<5.0	0.10	<5.0	0.10	<5.0	0.20	<5.0
Calcium	1000	50	-0.60	<1000	10.3	<1000	13.2	<1000	14.8	<1000
Chromium	10	1.8	-0.20	<10	-0.30	<10	-0.40	<10	0.0	<10
Cobalt	50	.5	anr							
Copper	25	1	anr							
Iron	300	29	-1.4	<300	5.4	<300	11.6	<300	14.1	<300
Lead	5.0	1.1	anr							
Magnesium	5000	74	-2.4	<5000	13.2	<5000	29.5	<5000	9.5	<5000
Manganese	15	.7	anr							
Molybdenum	50	.6								
Nickel	40	.5								
Potassium	10000	200	21.6	<10000	2.0	<10000	33.5	<10000	19.4	<10000
Selenium	10	2	-0.30	<10	-1.3	<10	0.0	<10	0.40	<10
Silver	10	.5	anr							
Sodium	10000	500	14.1	<10000	14.4	<10000	37.1	<10000	47.8	<10000
Strontium	10	.5								
Thallium	10	1.3								
Tin	50	.7								
Titanium	10	.9								
Vanadium	50	.5								
Zinc	20	3	anr							

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: FA7718
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA091013M1.ICP Date Analyzed: 09/10/13 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA11029 Units: ug/l

Time: / Sample ID:			11:42 CCB4		12:35 CCB5		13:28 CCB6		14:22 CCB7	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	15	4.4	<200	12.4	<200	5.0	<200	8.4	<200
Antimony	6.0	1.3	-0.20	<6.0	0.30	<6.0	0.30	<6.0	0.70	<6.0
Arsenic	10	1.6	-0.40	<10	0.10	<10	1.3	<10	0.10	<10
Barium	200	1	anr							
Beryllium	4.0	.5								
Cadmium	5.0	.5	0.10	<5.0	0.20	<5.0	0.20	<5.0	0.40	<5.0
Calcium	1000	50	14.6	<1000	14.2	<1000	17.6	<1000	29.4	<1000
Chromium	10	1.8	-0.20	<10	-0.20	<10	0.20	<10	-0.40	<10
Cobalt	50	.5	anr							
Copper	25	1	anr							
Iron	300	29	11.0	<300	11.1	<300	16.2	<300	10.0	<300
Lead	5.0	1.1	anr							
Magnesium	5000	74	2.3	<5000	-4.9	<5000	10.4	<5000	-3.0	<5000
Manganese	15	.7	anr							
Molybdenum	50	.6								
Nickel	40	.5								
Potassium	10000	200	-2.7	<10000	37.7	<10000	34.8	<10000	16.5	<10000
Selenium	10	2	1.2	<10	-0.20	<10	1.1	<10	-0.60	<10
Silver	10	.5	anr							
Sodium	10000	500	27.8	<10000	28.6	<10000	55.9	<10000	47.1	<10000
Strontium	10	.5								
Thallium	10	1.3								
Tin	50	.7								
Titanium	10	.9								
Vanadium	50	.5								
Zinc	20	3	anr							

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: FA7718
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA091013M1.ICP Date Analyzed: 09/10/13 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA11029 Units: ug/l

Time: / Sample ID:			15:15 CCB8		16:08 CCB9		17:01 CCB10		17:32 CCB11	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	15	5.6	<200	8.3	<200	8.4	<200	10.8	<200
Antimony	6.0	1.3	0.80	<6.0	0.90	<6.0	1.1	<6.0	0.50	<6.0
Arsenic	10	1.6	0.10	<10	0.0	<10	0.50	<10	-0.10	<10
Barium	200	1	anr							
Beryllium	4.0	.5								
Cadmium	5.0	.5	0.20	<5.0	0.30	<5.0	0.40	<5.0	0.30	<5.0
Calcium	1000	50	31.8	<1000	30.9	<1000	33.2	<1000	38.8	<1000
Chromium	10	1.8	0.0	<10	-0.20	<10	-0.10	<10	-0.10	<10
Cobalt	50	.5	anr							
Copper	25	1	anr							
Iron	300	29	10.9	<300	15.6	<300	14.2	<300	18.2	<300
Lead	5.0	1.1	anr							
Magnesium	5000	74	17.3	<5000	11.7	<5000	11.9	<5000	24.5	<5000
Manganese	15	.7	anr							
Molybdenum	50	.6								
Nickel	40	.5								
Potassium	10000	200	24.0	<10000	11.3	<10000	-32	<10000	-31	<10000
Selenium	10	2	0.40	<10	0.40	<10	-0.90	<10	1.0	<10
Silver	10	.5	anr							
Sodium	10000	500	66.2	<10000	58.3	<10000	48.0	<10000	44.3	<10000
Strontium	10	.5								
Thallium	10	1.3								
Tin	50	.7								
Titanium	10	.9								
Vanadium	50	.5								
Zinc	20	3	anr							

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA7718
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA091013M1.ICP Date Analyzed: 09/10/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA11029 Units: ug/l

Time:		08:17			08:55			09:52	
Sample ID:	ICV	ICV1		CCV	CCV1		CCV	CCV2	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	39700	99.3	40000	41000	102.5	40000	41000	102.5
Antimony	2000	1990	99.5	2000	2010	100.5	2000	2010	100.5
Arsenic	2000	1990	99.5	2000	2000	100.0	2000	2010	100.5
Barium	anr								
Beryllium									
Cadmium	2000	2010	100.5	2000	2030	101.5	2000	2030	101.5
Calcium	40000	41300	103.3	40000	41100	102.8	40000	41000	102.5
Chromium	2000	2020	101.0	2000	2030	101.5	2000	2040	102.0
Cobalt	anr								
Copper	anr								
Iron	40000	40300	100.8	40000	40700	101.8	40000	40400	101.0
Lead	anr								
Magnesium	40000	39300	98.3	40000	40900	102.3	40000	40600	101.5
Manganese	anr								
Molybdenum									
Nickel									
Potassium	40000	40700	101.8	40000	41000	102.5	40000	41000	102.5
Selenium	2000	2010	100.5	2000	2010	100.5	2000	2010	100.5
Silver	anr								
Sodium	40000	40900	102.3	40000	40900	102.3	40000	40800	102.0
Strontium									
Thallium									
Tin									
Titanium									
Vanadium									
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA7718
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA091013M1.ICP Date Analyzed: 09/10/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA11029 Units: ug/l

Time:		10:45			11:38			12:31	
Sample ID:	CCV	CCV3		CCV	CCV4		CCV	CCV5	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	41100	102.8	40000	41500	103.8	40000	41500	103.8
Antimony	2000	2020	101.0	2000	2020	101.0	2000	2010	100.5
Arsenic	2000	2010	100.5	2000	2010	100.5	2000	2010	100.5
Barium	anr								
Beryllium									
Cadmium	2000	2030	101.5	2000	2030	101.5	2000	2030	101.5
Calcium	40000	41200	103.0	40000	41300	103.3	40000	40800	102.0
Chromium	2000	2040	102.0	2000	2040	102.0	2000	2050	102.5
Cobalt	anr								
Copper	anr								
Iron	40000	40100	100.3	40000	40100	100.3	40000	40100	100.3
Lead	anr								
Magnesium	40000	40500	101.3	40000	40800	102.0	40000	40600	101.5
Manganese	anr								
Molybdenum									
Nickel									
Potassium	40000	41200	103.0	40000	41400	103.5	40000	41700	104.3
Selenium	2000	2010	100.5	2000	2010	100.5	2000	2010	100.5
Silver	anr								
Sodium	40000	40800	102.0	40000	41300	103.3	40000	41400	103.5
Strontium									
Thallium									
Tin									
Titanium									
Vanadium									
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA7718
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA091013M1.ICP Date Analyzed: 09/10/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA11029 Units: ug/l

Time:		13:24			14:18			15:11	
Sample ID:	CCV	CCV6		CCV	CCV7		CCV	CCV8	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	41400	103.5	40000	41800	104.5	40000	41000	102.5
Antimony	2000	2020	101.0	2000	2040	102.0	2000	2020	101.0
Arsenic	2000	2020	101.0	2000	2040	102.0	2000	1980	99.0
Barium	anr								
Beryllium									
Cadmium	2000	2040	102.0	2000	2060	103.0	2000	2010	100.5
Calcium	40000	40900	102.3	40000	41100	102.8	40000	41100	102.8
Chromium	2000	2050	102.5	2000	2060	103.0	2000	1980	99.0
Cobalt	anr								
Copper	anr								
Iron	40000	40100	100.3	40000	40500	101.3	40000	38600	96.5
Lead	anr								
Magnesium	40000	40400	101.0	40000	40700	101.8	40000	39600	99.0
Manganese	anr								
Molybdenum									
Nickel									
Potassium	40000	41700	104.3	40000	42100	105.3	40000	41300	103.3
Selenium	2000	2020	101.0	2000	2040	102.0	2000	2000	100.0
Silver	anr								
Sodium	40000	41300	103.3	40000	41900	104.8	40000	41400	103.5
Strontium									
Thallium									
Tin									
Titanium									
Vanadium									
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA7718
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA091013M1.ICP Date Analyzed: 09/10/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA11029 Units: ug/l

Time:		16:04			16:56			17:28	
Sample ID:	CCV	CCV9		CCV	CCV10		CCV	CCV11	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	41800	104.5	40000	41600	104.0	40000	41300	103.3
Antimony	2000	2020	101.0	2000	2010	100.5	2000	2020	101.0
Arsenic	2000	1990	99.5	2000	1990	99.5	2000	1990	99.5
Barium	anr								
Beryllium									
Cadmium	2000	2010	100.5	2000	2010	100.5	2000	2020	101.0
Calcium	40000	41400	103.5	40000	41200	103.0	40000	41300	103.3
Chromium	2000	2000	100.0	2000	1990	99.5	2000	1980	99.0
Cobalt	anr								
Copper	anr								
Iron	40000	39000	97.5	40000	38800	97.0	40000	38900	97.3
Lead	anr								
Magnesium	40000	40200	100.5	40000	39900	99.8	40000	39900	99.8
Manganese	anr								
Molybdenum									
Nickel									
Potassium	40000	41800	104.5	40000	41800	104.5	40000	42000	105.0
Selenium	2000	1990	99.5	2000	1990	99.5	2000	2010	100.5
Silver	anr								
Sodium	40000	42100	105.3	40000	42000	105.0	40000	42100	105.3
Strontium									
Thallium									
Tin									
Titanium									
Vanadium									
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

HIGH STANDARD CHECK SUMMARY

Login Number: FA7718
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA091013M1.ICP Date Analyzed: 09/10/13 Methods: SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA11029 Units: ug/l

Time:		08:10	
Sample ID:	HSTD	HSTD1	
Metal	True	Results	% Rec
Aluminum	80000	80000	100.0
Antimony	4000	4040	101.0
Arsenic	4000	4040	101.0
Barium	anr		
Beryllium			
Cadmium	4000	3990	99.8
Calcium	80000	79200	99.0
Chromium	4000	3990	99.8
Cobalt	anr		
Copper	anr		
Iron	80000	79800	99.8
Lead	anr		
Magnesium	80000	79500	99.4
Manganese	anr		
Molybdenum			
Nickel			
Potassium	80000	80000	100.0
Selenium	4000	4050	101.3
Silver	anr		
Sodium	80000	79500	99.4
Strontium			
Thallium			
Tin			
Titanium			
Vanadium			
Zinc	anr		

(*) Outside of QC limits
(anr) Analyte not requested

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: FA7718
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA091013M1.ICP Date Analyzed: 09/10/13 Methods: SW846 6010C
QC Limits: CRI 70-130% CRIA 70-130% Run ID: MA11029 Units: ug/l

Time:			08:30		17:14	
Sample ID:	CRI	CRIA	CRIA1		CRIA2	
Metal	True	True	Results	% Rec	Results	% Rec
Aluminum	400	200	200	100.0	207	103.5
Antimony	10	5.0	6.0	120.0	4.7	94.0
Arsenic	20	10	10.5	105.0	9.0	90.0
Barium	400	200	anr			
Beryllium	10	5.0				
Cadmium	10	5.0	5.1	102.0	5.0	100.0
Calcium	2000	1000	1050	105.0	1060	106.0
Chromium	20	10	9.9	99.0	9.4	94.0
Cobalt	100	50	anr			
Copper	50	25	anr			
Iron	600	300	303	101.0	291	97.0
Lead	10	5.0	anr			
Magnesium	10000	5000	5050	101.0	5000	100.0
Manganese	30	15	anr			
Molybdenum	100	50				
Nickel	80	40				
Potassium	20000	10000	10100	101.0	10400	104.0
Selenium	20	10	10.4	104.0	10.3	103.0
Silver	20	10	anr			
Sodium	20000	10000	10200	102.0	10600	106.0
Strontium	20	10				
Thallium	20	10				
Tin	100	50				
Titanium	20	10				
Vanadium	100	50				
Zinc	40	20	anr			

(*) Outside of QC limits
(anr) Analyte not requested

INTERFERING ELEMENT CHECK STANDARDS SUMMARY
Part 1 - ICSA and ICSAB Standards

Login Number: FA7718
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA091013M1.ICP Date Analyzed: 09/10/13 Methods: SW846 6010C
QC Limits: 80 to 120 % Recovery Run ID: MA11029 Units: ug/l

Time:			08:38		08:46		17:18		17:23	
Sample ID:	ICSA	ICSAB	ICSA1		ICSAB1		ICSA2		ICSAB2	
Metal	True	True	Results	% Rec	Results	% Rec	Results	% Rec	Results	% Rec
Aluminum	500000	500000	514000	102.8	512000	102.4	523000	104.6	519000	103.8
Antimony		1000	0.0		1040	104.0	-0.50		1040	104.0
Arsenic		1000	0.0		1040	104.0	0.0		1030	103.0
Barium		500	0.10		524	104.8	0.30		553	110.6
Beryllium		500	0.0		493	98.6	0.0		481	96.2
Cadmium		1000	0.0		931	93.1	1.5		925	92.5
Calcium	500000	500000	475000	95.0	486000	97.2	480000	96.0	493000	98.6
Chromium		500	-0.30		480	96.0	-0.50		471	94.2
Cobalt		500	1.4		466	93.2	1.5		475	95.0
Copper		500	0.0		526	105.2	0.90		504	100.8
Iron	200000	200000	186000	93.0	188000	94.0	180000	90.0	181000	90.5
Lead		1000	0.20		956	95.6	-1.9		956	95.6
Magnesium	500000	500000	493000	98.6	497000	99.4	488000	97.6	487000	97.4
Manganese		500	0.0		500	100.0	0.40		488	97.6
Molybdenum		1000	0.0		950	95.0	-0.30		979	97.9
Nickel		1000	-0.10		923	92.3	0.0		922	92.2
Potassium			129		29.5		99.8		224	
Selenium		1000	0.0		1000	100.0	-1.4		994	99.4
Silver		1000	0.50		997	99.7	0.80		992	99.2
Sodium			161		125		200		158	
Strontium		1000	12.1		1030	103.0	12.3		1040	104.0
Thallium		1000	0.10		966	96.6	2.1		971	97.1
Tin		1000	2.5		941	94.1	1.8		949	94.9
Titanium		1000	-4.3		992	99.2	-4.4		986	98.6
Vanadium		500	0.0		487	97.4	-0.10		467	93.4
Zinc		1000	-0.20		934	93.4	-0.50		945	94.5

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: FA7718
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

QC Batch ID: MP25796
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date:					09/09/13		09/09/13
Metal	RL	IDL	MDL	MB raw	final	MB raw	final
Aluminum	200	15	15	27.5	<200	-0.40	<200
Antimony	6.0	1.3	1.3	-3.1	<6.0	-2.7	<6.0
Arsenic	10	1.6	2.5	0.40	<10	0.10	<10
Barium	200	1	1				
Beryllium	4.0	.5	.5				
Cadmium	5.0	.5	.5	0.30	<5.0	0.0	<5.0
Calcium	1000	50	50	325	<1000	22.2	<1000
Chromium	10	1.8	2	0.30	<10	0.10	<10
Cobalt	50	.5	.5				
Copper	25	1	1				
Iron	300	29	29	32.4	<300	-4.8	<300
Lead	5.0	1.1	1.1				
Magnesium	5000	74	74	28.2	<5000	-1.9	<5000
Manganese	15	.7	.7				
Molybdenum	50	.6	1				
Nickel	40	.5	.5				
Potassium	10000	200	200	14.8	<10000	-13	<10000
Selenium	10	2	2	-0.20	<10	0.90	<10
Silver	10	.5	.5				
Sodium	10000	500	500	54.4	<10000	-0.10	<10000
Strontium	10	.5	.5				
Thallium	10	1.3	1.3				
Tin	50	.7	1.8				
Titanium	10	.9	1				
Vanadium	50	.5	1				
Zinc	20	3	5				

Associated samples MP25796: FA7718-1, FA7718-2, FA7718-3, FA7718-4

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FA7718
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

QC Batch ID: MP25796
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date:			09/09/13					09/09/13	
Metal	FA7918-1 Original	DUP	RPD	QC Limits	FA7918-1 Original	MS	Spikelot MPFLICP2	% Rec	QC Limits
Aluminum	29.8	41.5	32.8 (a)	0-20	29.8	27500	27000	101.7	80-120
Antimony	0.0	0.0	NC	0-20	0.0	502	500	100.4	80-120
Arsenic	8.9	7.7	14.5	0-20	8.9	2040	2000	101.6	80-120
Barium	anr								
Beryllium									
Cadmium	0.0	0.0	NC	0-20	0.0	49.7	50	99.4	80-120
Calcium	96400	92300	4.3	0-20	96400	117000	25000	82.4	80-120
Chromium	0.0	0.0	NC	0-20	0.0	209	200	104.5	80-120
Cobalt									
Copper									
Iron	31500	30000	4.9	0-20	31500	57200	26000	98.8	80-120
Lead	anr								
Magnesium	7220	6960	3.7	0-20	7220	32000	25000	99.1	80-120
Manganese									
Molybdenum									
Nickel									
Potassium	3790	3610	4.9	0-20	3790	30500	25000	106.8	80-120
Selenium	0.0	0.0	NC	0-20	0.0	2020	2000	101.0	80-120
Silver	anr								
Sodium	15700	15000	4.6	0-20	15700	40000	25000	97.2	80-120
Strontium									
Thallium									
Tin									
Titanium									
Vanadium									
Zinc									

Associated samples MP25796: FA7718-1, FA7718-2, FA7718-3, FA7718-4

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) RPD acceptable due to low duplicate and sample concentrations.

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FA7718
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

QC Batch ID: MP25796
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 09/09/13

Metal	FA7918-1 Original	MSD	Spikelot MPFLICP2	% Rec	MSD RPD	QC Limit
Aluminum	29.8	28000	27000	103.6	1.8	20
Antimony	0.0	510	500	102.0	1.6	20
Arsenic	8.9	2070	2000	103.1	1.5	20
Barium	anr					
Beryllium						
Cadmium	0.0	50.8	50	101.6	2.2	20
Calcium	96400	117000	25000	82.4	0.0	20
Chromium	0.0	213	200	106.5	1.9	20
Cobalt						
Copper						
Iron	31500	57500	26000	100.0	0.5	20
Lead	anr					
Magnesium	7220	32600	25000	101.5	1.9	20
Manganese						
Molybdenum						
Nickel						
Potassium	3790	31100	25000	109.2	1.9	20
Selenium	0.0	2050	2000	102.5	1.5	20
Silver	anr					
Sodium	15700	40400	25000	98.8	1.0	20
Strontium						
Thallium						
Tin						
Titanium						
Vanadium						
Zinc						

Associated samples MP25796: FA7718-1, FA7718-2, FA7718-3, FA7718-4

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: FA7718
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

QC Batch ID: MP25796
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 09/09/13

Metal	BSP Result	Spikelot MPFLICP2	% Rec	QC Limits
Aluminum	28300	27000	104.8	80-120
Antimony	509	500	101.8	80-120
Arsenic	2050	2000	102.5	80-120
Barium	anr			
Beryllium				
Cadmium	51.8	50	103.6	80-120
Calcium	26900	25000	107.6	80-120
Chromium	214	200	107.0	80-120
Cobalt				
Copper				
Iron	28500	26000	109.6	80-120
Lead	anr			
Magnesium	26700	25000	106.8	80-120
Manganese				
Molybdenum				
Nickel				
Potassium	27700	25000	110.8	80-120
Selenium	2040	2000	102.0	80-120
Silver	anr			
Sodium	26400	25000	105.6	80-120
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc				

Associated samples MP25796: FA7718-1, FA7718-2, FA7718-3, FA7718-4

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: FA7718
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

QC Batch ID: MP25796
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 09/09/13

Metal	FA7918-1 Original	SDL 1:5	%DIF	QC Limits
Aluminum	29.8	0.00	100.0(a)	0-10
Antimony	0.00	0.00	NC	0-10
Arsenic	8.90	8.40	5.6	0-10
Barium	anr			
Beryllium				
Cadmium	0.00	0.00	NC	0-10
Calcium	96400	90100	6.5	0-10
Chromium	0.00	0.00	NC	0-10
Cobalt				
Copper				
Iron	31500	29600	5.9	0-10
Lead	anr			
Magnesium	7220	6960	3.7	0-10
Manganese				
Molybdenum				
Nickel				
Potassium	3790	3310	12.7 (a)	0-10
Selenium	0.00	0.00	NC	0-10
Silver	anr			
Sodium	15700	14500	7.4	0-10
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc				

Associated samples MP25796: FA7718-1, FA7718-2, FA7718-3, FA7718-4

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

POST DIGESTATE SPIKE SUMMARY

Login Number: FA7718
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

QC Batch ID: MP25796
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 09/09/13

Metal	Sample ml	Final ml	FA7918-1 Raw	Corr.**	PS ug/l	Spike ml	Spike ug/ml	Spike ug/l	% Rec	QC Limits
Aluminum	9.8	10	29.8	29.204	2593	0.2	125	2500	102.6	80-120
Antimony	9.8	10			98.8	0.2	5	100	98.8	80-120
Arsenic	9.8	10	8.9	8.722	111.5	0.2	5	100	102.8	80-120
Barium										
Beryllium										
Cadmium	9.8	10			50.8	0.2	2.5	50	101.6	80-120
Calcium	9.8	10	96400	94472	98280	0.2	250	5000	76.2*(a)	80-120
Chromium	9.8	10			53.1	0.2	2.5	50	106.2	80-120
Cobalt										
Copper										
Iron	9.8	10	31470	30840.6	33370	0.2	150	3000	84.3	80-120
Lead										
Magnesium	9.8	10	7224	7079.52	11800	0.2	250	5000	94.4	80-120
Manganese										
Molybdenum										
Nickel										
Potassium	9.8	10	3792	3716.16	14130	0.2	500	10000	104.1	80-120
Selenium	9.8	10			101.2	0.2	5	100	101.2	80-120
Silver										
Sodium	9.8	10	15690	15376.2	25520	0.2	500	10000	101.4	80-120
Strontium										
Thallium										
Tin										
Titanium										
Vanadium										
Zinc										

Associated samples MP25796: FA7718-1, FA7718-2, FA7718-3, FA7718-4

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(**) Corr. sample result = Raw * (sample volume / final volume)
(anr) Analyte not requested
(a) Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: FA7718
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

QC Batch ID: MP25802
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date:					09/09/13		09/09/13		09/09/13
Metal	RL	IDL	MDL	MB raw	final	MB raw	final	MB raw	final
Aluminum	200	15	15	6.7	<200	-5.0	<200	-7.3	<200
Antimony	6.0	1.3	1.3	-0.40	<6.0	-0.10	<6.0	-0.50	<6.0
Arsenic	10	1.6	2.5	0.0	<10	-0.10	<10	-0.70	<10
Barium	200	1	1						
Beryllium	4.0	.5	.5						
Cadmium	5.0	.5	.5	0.0	<5.0	-0.10	<5.0	-0.10	<5.0
Calcium	1000	50	50	17.7	<1000	14.2	<1000	13.5	<1000
Chromium	10	1.8	2	-0.60	<10	-0.30	<10	0.0	<10
Cobalt	50	.5	.5						
Copper	25	1	1						
Iron	300	29	29	-1.7	<300	-6.9	<300	-6.1	<300
Lead	5.0	1.1	1.1						
Magnesium	5000	74	74	-8.5	<5000	5.8	<5000	-2.3	<5000
Manganese	15	.7	.7						
Molybdenum	50	.6	1						
Nickel	40	.5	.5						
Potassium	10000	200	200	-9.5	<10000	9.7	<10000	11.0	<10000
Selenium	10	2	2	0.30	<10	-0.70	<10	0.70	<10
Silver	10	.5	.5						
Sodium	10000	500	500	15.1	<10000	43.8	<10000	33.7	<10000
Strontium	10	.5	.5						
Thallium	10	1.3	1.3						
Tin	50	.7	1.8						
Titanium	10	.9	1						
Vanadium	50	.5	1						
Zinc	20	3	5						

Associated samples MP25802: FA7718-5

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FA7718
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

QC Batch ID: MP25802
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date:			09/09/13					09/09/13	
Metal	FA7752-3F Original	DUP	RPD	QC Limits	FA7752-3F Original	MS	Spikelot MPFLICP2	% Rec	QC Limits
Aluminum	45.3	47.3	4.3	0-20	45.3	29000	27000	107.2	80-120
Antimony	0.0	0.0	NC	0-20	0.0	534	500	106.8	80-120
Arsenic	2.4	2.5	4.1	0-20	2.4	2130	2000	106.4	80-120
Barium									
Beryllium									
Cadmium	0.0	0.0	NC	0-20	0.0	50.3	50	100.6	80-120
Calcium	273000	269000	1.5	0-20	273000	288000	25000	60.0 (a)	80-120
Chromium	0.0	0.0	NC	0-20	0.0	213	200	106.5	80-120
Cobalt									
Copper	anr								
Iron	4950	4840	2.2	0-20	4950	31800	26000	103.3	80-120
Lead	anr								
Magnesium	9860	9610	2.6	0-20	9860	34900	25000	100.2	80-120
Manganese	anr								
Molybdenum									
Nickel									
Potassium	5100	4950	3.0	0-20	5100	32100	25000	108.0	80-120
Selenium	0.0	0.0	NC	0-20	0.0	2120	2000	106.0	80-120
Silver									
Sodium	10500	10300	1.9	0-20	10500	37000	25000	106.0	80-120
Strontium									
Thallium									
Tin									
Titanium									
Vanadium									
Zinc	anr								

Associated samples MP25802: FA7718-5

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FA7718
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

QC Batch ID: MP25802
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 09/09/13

Metal	FA7752-3F Original	MSD	Spikelot MPFLICP2	% Rec	MSD RPD	QC Limit
Aluminum	45.3	29600	27000	109.5	2.0	20
Antimony	0.0	539	500	107.8	0.9	20
Arsenic	2.4	2150	2000	107.4	0.9	20
Barium						
Beryllium						
Cadmium	0.0	50.8	50	101.6	1.0	20
Calcium	273000	296000	25000	92.0	2.7	20
Chromium	0.0	217	200	108.5	1.9	20
Cobalt						
Copper	anr					
Iron	4950	32300	26000	105.2	1.6	20
Lead	anr					
Magnesium	9860	35700	25000	103.4	2.3	20
Manganese	anr					
Molybdenum						
Nickel						
Potassium	5100	32800	25000	110.8	2.2	20
Selenium	0.0	2130	2000	106.5	0.5	20
Silver						
Sodium	10500	37500	25000	108.0	1.3	20
Strontium						
Thallium						
Tin						
Titanium						
Vanadium						
Zinc	anr					

Associated samples MP25802: FA7718-5

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: FA7718
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

QC Batch ID: MP25802
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 09/09/13

Metal	BSP Result	Spikelot MPFLICP2	% Rec	QC Limits
Aluminum	28800	27000	106.7	80-120
Antimony	525	500	105.0	80-120
Arsenic	2070	2000	103.5	80-120
Barium				
Beryllium				
Cadmium	52.3	50	104.6	80-120
Calcium	27300	25000	109.2	80-120
Chromium	217	200	108.5	80-120
Cobalt				
Copper	anr			
Iron	27800	26000	106.9	80-120
Lead	anr			
Magnesium	26300	25000	105.2	80-120
Manganese	anr			
Molybdenum				
Nickel				
Potassium	26800	25000	107.2	80-120
Selenium	2070	2000	103.5	80-120
Silver				
Sodium	26600	25000	106.4	80-120
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc	anr			

Associated samples MP25802: FA7718-5

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: FA7718
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

QC Batch ID: MP25802
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 09/09/13

Metal	FA7752-3F Original	SDL 1:5	%DIF	QC Limits
Aluminum	45.3	82.5	82.1 (a)	0-10
Antimony	0.00	0.00	NC	0-10
Arsenic	2.40	0.00	100.0(a)	0-10
Barium				
Beryllium				
Cadmium	0.00	0.00	NC	0-10
Calcium	273000	272000	0.5	0-10
Chromium	0.00	0.00	NC	0-10
Cobalt				
Copper	anr			
Iron	4950	4760	3.9	0-10
Lead	anr			
Magnesium	9860	9770	0.9	0-10
Manganese	anr			
Molybdenum				
Nickel				
Potassium	5100	4910	3.7	0-10
Selenium	0.00	0.00	NC	0-10
Silver				
Sodium	10500	10000	4.8	0-10
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc	anr			

Associated samples MP25802: FA7718-5

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

POST DIGESTATE SPIKE SUMMARY

Login Number: FA7718
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

QC Batch ID: MP25802
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 09/09/13

Metal	Sample ml	Final ml	FA7752-3F Raw	FA7752-3F Corr.**	PS ug/l	Spike ml	Spike ug/ml	Spike ug/l	% Rec	QC Limits
Aluminum	9.8	10	45.3	44.394	2636	0.2	125	2500	103.7	80-120
Antimony	9.8	10			106.8	0.2	5	100	106.8	80-120
Arsenic	9.8	10	2.4	2.352	111.2	0.2	5	100	108.8	80-120
Barium										
Beryllium										
Cadmium	9.8	10			51.3	0.2	2.5	50	102.6	80-120
Calcium	9.8	10	273300	267834	272100	0.2	250	5000	85.3	80-120
Chromium	9.8	10			53.4	0.2	2.5	50	106.8	80-120
Cobalt										
Copper										
Iron	9.8	10	4950	4851	7778	0.2	150	3000	97.6	80-120
Lead										
Magnesium	9.8	10	9858	9660.84	14280	0.2	250	5000	92.4	80-120
Manganese										
Molybdenum										
Nickel										
Potassium	9.8	10	5100	4998	15240	0.2	500	10000	102.4	80-120
Selenium	9.8	10			103.5	0.2	5	100	103.5	80-120
Silver										
Sodium	9.8	10	10510	10299.8	20890	0.2	500	10000	105.9	80-120
Strontium										
Thallium										
Tin										
Titanium										
Vanadium										
Zinc										

Associated samples MP25802: FA7718-5

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(**) Corr. sample result = Raw * (sample volume / final volume)
(anr) Analyte not requested

Southeast ACCUTEST LABORATORIES

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries
- Instrument Runlogs/QC

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: FA7718
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Alkalinity, Total as CaCO3	GN57656	5.0	0.80	mg/l	250	254	102.0	90-113%
Chloride	GP22396/GN57503	2.0	0.0	mg/l	50	50.3	100.6	90-110%
Fluoride	GP22429/GN57593	0.20	0.0	mg/l	2.5	2.35	94.0	90-110%
Nitrogen, Nitrate	GP22396/GN57503	0.10	0.0	mg/l	2.5	2.62	104.8	90-110%
Nitrogen, Nitrite	GP22396/GN57503	0.10	0.0	mg/l	2.5	2.59	103.6	90-110%
Phosphate, Ortho	GP22405/GN57526	0.10	0.0	mg/l	0.300	0.28	94.4	83-116%
Phosphorus, Total	GP22431/GN57591	0.10	0.0	mg/l	.300	0.28	93.0	81-118%
Solids, Total Dissolved	GN57574	100	0.0	mg/l				
Specific Conductivity	GN57496	1.0	0.0	umhos/cm				
Sulfate	GP22396/GN57503	2.0	0.0	mg/l	50	50.5	101.0	90-110%

Associated Samples:
Batch GN57496: FA7718-1, FA7718-2, FA7718-3, FA7718-4, FA7718-5
Batch GN57497: FA7718-1, FA7718-2, FA7718-3, FA7718-4, FA7718-5
Batch GN57574: FA7718-1, FA7718-2, FA7718-3, FA7718-4, FA7718-5
Batch GN57656: FA7718-1, FA7718-2, FA7718-3, FA7718-4, FA7718-5
Batch GP22396: FA7718-1, FA7718-2, FA7718-3, FA7718-4, FA7718-5
Batch GP22405: FA7718-1F, FA7718-2F, FA7718-3F, FA7718-4F, FA7718-5F
Batch GP22429: FA7718-1, FA7718-2, FA7718-3, FA7718-4, FA7718-5
Batch GP22431: FA7718-1, FA7718-2, FA7718-3, FA7718-4, FA7718-5
(*) Outside of QC limits

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: FA7718
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Alkalinity, Total as CaCO3	GN57656	FA7718-2	mg/l	84.4	83.9	0.6	0-20%
Solids, Total Dissolved	GN57574	FA7797-1	mg/l	821	820	0.1	0-5%
Specific Conductivity	GN57496	FA7717-1	umhos/cm	5500	5500	0.2	0-10%
pH	GN57497	FA7718-5	su	5.60	5.58	0.2	0-10%

Associated Samples:
Batch GN57496: FA7718-1, FA7718-2, FA7718-3, FA7718-4, FA7718-5
Batch GN57497: FA7718-1, FA7718-2, FA7718-3, FA7718-4, FA7718-5
Batch GN57574: FA7718-1, FA7718-2, FA7718-3, FA7718-4, FA7718-5
Batch GN57656: FA7718-1, FA7718-2, FA7718-3, FA7718-4, FA7718-5
(*) Outside of QC limits

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: FA7718
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Chloride	GP22396/GN57503	FA7705-2	mg/l	29.1	50	76.8	95.4	90-110%
Fluoride	GP22429/GN57593	FA7717-2	mg/l	1.5 U	2.5	2.6	104.0	90-110%
Nitrogen, Nitrate	GP22396/GN57503	FA7705-2	mg/l	0.050 U	2.5	2.6	104.0	90-110%
Nitrogen, Nitrite	GP22396/GN57503	FA7705-2	mg/l	0.050 U	2.5	2.6	104.0	90-110%
Phosphate, Ortho	GP22405/GN57526	FA7717-4F	mg/l	0.13	0.300	0.30	56.8*(a)	83-116%
Phosphorus, Total	GP22431/GN57591	FA7856-5	mg/l	0.047	.300mg/l	0.39	113.0	81-118%
Sulfate	GP22396/GN57503	FA7705-2	mg/l	0.60 U	50	49.1	98.2	90-110%

Associated Samples:
Batch GP22396: FA7718-1, FA7718-2, FA7718-3, FA7718-4, FA7718-5
Batch GP22405: FA7718-1F, FA7718-2F, FA7718-3F, FA7718-4F, FA7718-5F
Batch GP22429: FA7718-1, FA7718-2, FA7718-3, FA7718-4, FA7718-5
Batch GP22431: FA7718-1, FA7718-2, FA7718-3, FA7718-4, FA7718-5
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(a) Spike recovery indicates possible matrix interference.

MATRIX SPIKE DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: FA7718
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MSD Result	RPD	QC Limit
Chloride	GP22396/GN57503	FA7705-2	mg/l	29.1	50	78.9	2.7	20%
Fluoride	GP22429/GN57593	FA7717-2	mg/l	1.5 U	2.5	2.8	7.4	20%
Nitrogen, Nitrate	GP22396/GN57503	FA7705-2	mg/l	0.050 U	2.5	2.6	0.0	20%
Nitrogen, Nitrite	GP22396/GN57503	FA7705-2	mg/l	0.050 U	2.5	2.6	0.0	20%
Phosphate, Ortho	GP22405/GN57526	FA7717-4F	mg/l	0.13	0.300	0.305	1.2	26%
Phosphorus, Total	GP22431/GN57591	FA7856-5	mg/l	0.047	.300	0.400	3.3	22%
Sulfate	GP22396/GN57503	FA7705-2	mg/l	0.60 U	50	49.1	0.0	20%

Associated Samples:
Batch GP22396: FA7718-1, FA7718-2, FA7718-3, FA7718-4, FA7718-5
Batch GP22405: FA7718-1F, FA7718-2F, FA7718-3F, FA7718-4F, FA7718-5F
Batch GP22429: FA7718-1, FA7718-2, FA7718-3, FA7718-4, FA7718-5
Batch GP22431: FA7718-1, FA7718-2, FA7718-3, FA7718-4, FA7718-5
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA7718
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: 313300801.TXT Date Analyzed: 08/30/13 Methods: EPA 300/SW846 9056A
Analyst: AA Run ID: GN57503
Parameters: Chloride,Nitrogen, Nitrate,Sulfate

Time	Sample Description	Dilution Factor	PS Recov	Comments
08:52	GN57503-CCV1	1		
09:07	GP22396-MB1	1		
09:23	GP22396-B1	1		
10:29	ZZZZZZ	1		
10:45	FA7705-2	1		(sample used for QC only; not part of login FA7718)
11:01	FA7705-3	1		(sample used for QC only; not part of login FA7718)
11:29	ZZZZZZ	25		
11:45	ZZZZZZ	25		
12:00	ZZZZZZ	25		
12:16	GN57503-CCV2	1		
12:32	GN57503-CCB1	1		
12:48	ZZZZZZ	25		
13:04	ZZZZZZ	2		
13:20	ZZZZZZ	5		
13:36	ZZZZZZ	2		
13:52	ZZZZZZ	2		
14:08	ZZZZZZ	2		
14:24	ZZZZZZ	2		
14:40	ZZZZZZ	2		
14:56	ZZZZZZ	2		
15:11	FA7718-1	100		
15:27	GN57503-CCV3	1		
15:43	GN57503-CCB2	1		
15:59	FA7718-2	25		
16:15	FA7718-3	5		
16:31	FA7718-4	1		
16:47	FA7718-5	10		
17:03	GP22396-S1	1		
17:19	GP22396-S2	1		
17:35	GP22396-S3	1		
17:51	GP22396-S4	1		
18:07	ZZZZZZ	50		
18:23	ZZZZZZ	50		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA7718
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: 313300801.TXT Date Analyzed: 08/30/13 Methods: EPA 300/SW846 9056A
Analyst: AA Run ID: GN57503
Parameters: Chloride,Nitrogen, Nitrate,Sulfate

Time	Sample Description	Dilution Factor	PS Recov	Comments
18:38	GN57503-CCV4	1		
18:54	GP22397-MB1	1		
19:10	GP22397-B1	1		
19:26	ZZZZZZ	1		
19:42	ZZZZZZ	2		
19:58	ZZZZZZ	1		
20:14	FA7752-1	1		(sample used for QC only; not part of login FA7718)
20:30	ZZZZZZ	5		
20:46	FA7752-3	5		(sample used for QC only; not part of login FA7718)
21:02	ZZZZZZ	10		
21:18	ZZZZZZ	1		
21:34	GN57503-CCV5	1		
21:49	GN57503-CCB3	1		
22:05	ZZZZZZ	2		
22:21	ZZZZZZ	5		
22:37	ZZZZZZ	10		
22:53	ZZZZZZ	5		
23:09	ZZZZZZ	10		
23:25	FA7752-11	1		(sample used for QC only; not part of login FA7718)
23:41	ZZZZZZ	5		
23:57	ZZZZZZ	1		
00:13	GP22397-S1	1		
00:29	GP22397-S2	1		
00:45	GN57503-CCV6	1		
01:00	GN57503-CCB4	1		
01:16	GP22397-S3	1		
01:32	GP22397-S4	1		
01:48	GN57503-CCV7	1		
02:04	GP22371-MB1	1		
02:20	GP22371-B1	1		
02:36	FA7577-1	5		(sample used for QC only; not part of login FA7718)
02:52	GP22371-S1	5		
03:08	GP22371-S2	5		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA7718
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: 313300801.TXT Date Analyzed: 08/30/13 Methods: EPA 300/SW846 9056A
Analyst: AA Run ID: GN57503
Parameters: Chloride,Nitrogen, Nitrate,Sulfate

Time	Sample Description	Dilution Factor	PS Recov	Comments
03:40	GN57503-CCV8	1		
03:56	GN57503-CCB5	1		

Refer to raw data for calibration curve and standards.

Instrument QC Summary
Inorganics Analyses

Login Number: FA7718
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: 313300801.TXT Date Analyzed: 08/30/13 Methods: EPA 300/SW846 9056A
Run ID: GN57503 Units: mg/l

Sample Number	Parameter	Result	RL	IDL/MDL	True Value	% Recov.	QC Limits
GN57503-CCV1	Chloride	50.0	2.0	0.80	50	100.0	90-110
GN57503-CCV1	Nitrogen, Nitrate	2.6	0.10	0.050	2.5	104.0	90-110
GN57503-CCV1	Sulfate	50.0	2.0	0.60	50	100.0	90-110
GN57503-CCV2	Chloride	50.3	2.0	0.80	50	100.6	90-110
GN57503-CCV2	Nitrogen, Nitrate	2.6	0.10	0.050	2.5	104.0	90-110
GN57503-CCV2	Sulfate	49.9	2.0	0.60	50	99.8	90-110
GN57503-CCB1	Chloride	0.80 U	2.0	0.80			
GN57503-CCB1	Nitrogen, Nitrate	0.050 U	0.10	0.050			
GN57503-CCB1	Sulfate	0.60 U	2.0	0.60			
GN57503-CCV3	Chloride	50.0	2.0	0.80	50	100.0	90-110
GN57503-CCV3	Nitrogen, Nitrate	2.6	0.10	0.050	2.5	104.0	90-110
GN57503-CCV3	Sulfate	49.9	2.0	0.60	50	99.8	90-110
GN57503-CCB2	Chloride	0.80 U	2.0	0.80			
GN57503-CCB2	Nitrogen, Nitrate	0.050 U	0.10	0.050			
GN57503-CCB2	Sulfate	0.60 U	2.0	0.60			
GN57503-CCV4	Chloride	50.1	2.0	0.80	50	100.2	90-110
GN57503-CCV4	Nitrogen, Nitrate	2.6	0.10	0.050	2.5	104.0	90-110
GN57503-CCV4	Sulfate	49.8	2.0	0.60	50	99.6	90-110
GN57503-CCV5	Chloride	50.1	2.0	0.80	50	100.2	90-110
GN57503-CCV5	Nitrogen, Nitrate	2.6	0.10	0.050	2.5	104.0	90-110
GN57503-CCV5	Sulfate	49.7	2.0	0.60	50	99.4	90-110
GN57503-CCB3	Chloride	0.80 U	2.0	0.80			
GN57503-CCB3	Nitrogen, Nitrate	0.050 U	0.10	0.050			
GN57503-CCB3	Sulfate	0.60 U	2.0	0.60			
GN57503-CCV6	Chloride	50.1	2.0	0.80	50	100.2	90-110
GN57503-CCV6	Nitrogen, Nitrate	2.6	0.10	0.050	2.5	104.0	90-110
GN57503-CCV6	Sulfate	49.8	2.0	0.60	50	99.6	90-110
GN57503-CCB4	Chloride	0.80 U	2.0	0.80			
GN57503-CCB4	Nitrogen, Nitrate	0.050 U	0.10	0.050			
GN57503-CCB4	Sulfate	0.60 U	2.0	0.60			
GN57503-CCV7	Chloride	50.2	2.0	0.80	50	100.4	90-110
GN57503-CCV7	Nitrogen, Nitrate	2.6	0.10	0.050	2.5	104.0	90-110
GN57503-CCV7	Sulfate	49.9	2.0	0.60	50	99.8	90-110
GN57503-CCV8	Chloride	50.2	2.0	0.80	50	100.4	90-110
GN57503-CCV8	Nitrogen, Nitrate	2.6	0.10	0.050	2.5	104.0	90-110
GN57503-CCV8	Sulfate	50.1	2.0	0.60	50	100.2	90-110
GN57503-CCB5	Chloride	0.80 U	2.0	0.80			
GN57503-CCB5	Nitrogen, Nitrate	0.050 U	0.10	0.050			
GN57503-CCB5	Sulfate	0.60 U	2.0	0.60			

(!) Outside of QC limits

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA7718
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: 313030901.TXT Date Analyzed: 09/03/13 Methods: EPA 300/SW846 9056A
Analyst: AA Run ID: GN57535
Parameters: Nitrogen, Nitrate

Time	Sample Description	Dilution Factor	PS Recov	Comments
14:57	GN57535-CCV1	1		
15:13	GN57535-CCB1	1		
16:31	GP22397-S5	5		
16:47	GP22397-S6	5		
17:03	FA7718-2	100		
17:19	GN57535-CCV2	1		
17:35	GN57535-CCB2	1		

Refer to raw data for calibration curve and standards.

Instrument QC Summary
Inorganics Analyses

Login Number: FA7718
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: 313030901.TXT Date Analyzed: 09/03/13 Methods: EPA 300/SW846 9056A
Run ID: GN57535 Units: mg/l

Sample Number	Parameter	Result	RL	IDL/MDL	True Value	% Recov.	QC Limits
GN57535-CCV1	Nitrogen, Nitrate	2.5	0.10	0.050	2.5	100.0	90-110
GN57535-CCB1	Nitrogen, Nitrate	0.050 U	0.10	0.050			
GN57535-CCV2	Nitrogen, Nitrate	2.5	0.10	0.050	2.5	100.0	90-110
GN57535-CCB2	Nitrogen, Nitrate	0.050 U	0.10	0.050			

(!) Outside of QC limits

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA7718
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: 213090901.TXT Date Analyzed: 09/09/13 Methods: EPA 300/SW846 9056A
Analyst: AA Run ID: GN57593
Parameters: Fluoride

Time	Sample Description	Dilution Factor	PS Recov	Comments
09:22	GN57593-CCV1	1		
09:38	GP22429-MB1	1		
10:52	GP22429-B1	1		
11:09	ZZZZZZ	1		
11:26	FA7814-1	5		(sample used for QC only; not part of login FA7718)
11:43	ZZZZZZ	2000		
12:00	ZZZZZZ	25		
12:17	FA7717-2	25		(sample used for QC only; not part of login FA7718)
12:34	ZZZZZZ	25		
12:51	ZZZZZZ	25		
13:08	FA7718-4	1		
13:24	GN57593-CCV2	1		
13:41	GN57593-CCB1	1		
13:58	FA7718-2	25		
14:15	FA7718-3	5		
14:32	FA7718-1	2000		
14:49	FA7718-5	10		
15:06	GP22429-S1	5		
15:23	GP22429-S2	5		
15:40	GP22429-S3	25		
15:57	GP22429-S4	25		
16:14	GN57593-CCV3	1		
16:31	GN57593-CCB2	1		

Refer to raw data for calibration curve and standards.

Instrument QC Summary
Inorganics Analyses

Login Number: FA7718
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: 213090901.TXT Date Analyzed: 09/09/13 Methods: EPA 300/SW846 9056A
Run ID: GN57593 Units: mg/l

Sample Number	Parameter	Result	RL	IDL/MDL	True Value	% Recov.	QC Limits
GN57593-CCV1	Fluoride	2.3	0.20	0.060	2.5	92.0	90-110
GN57593-CCV2	Fluoride	2.6	0.20	0.060	2.5	104.0	90-110
GN57593-CCB1	Fluoride	0.060 U	0.20	0.060			
GN57593-CCV3	Fluoride	2.6	0.20	0.060	2.5	104.0	90-110
GN57593-CCB2	Fluoride	0.060 U	0.20	0.060			

(!) Outside of QC limits