CERTIFICATION

I certify under penalty of law that the document "Main Processing Area Groundwater Monitoring Report" dated March 26, 2013 and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature: James A. Cagle

Name: James A. Cagle

Title: Environmental Specialist

Date: March 26, 2013

March 26, 2013

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

Re: 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 Environment & Energy, now part of WSP USA Corp. (WSP), has prepared this letter providing the results of the January and February 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 monitoring program 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 through Friday, February 15, 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 compiled at 15-minute intervals from a weather station maintained at the CPO facility. The pressure transducer/datalogger files were downloaded weekly and provided to U.S Environmental Protection Agency (EPA) and Idaho Department of Environmental Quality (IDEQ). Figures 1A and 1B show the pressure transducer/datalogger files and weather data through Thursday, February 14, 2013.

Groundwater Sampling Procedures

Between January 23 and February 15, 2013, groundwater samples were collected from nine monitoring wells (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 in the Main Processing Area are shown on Figure 2 and the well construction information is presented in Table 1. Groundwater sampling at each location was conducted according to the following schedule based on the groundwater pH, as determined by laboratory analysis.

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- If groundwater pH is < 2.5, weekly sampling
- If groundwater pH is > 2.5 but < 4.0, bi-weekly sampling
- If groundwater pH is > 4.0, monthly sampling

Based on previous analytical results, only monitoring well A-34-022 was anticipated to exhibit groundwater with pH < 2.5; groundwater in all other groundwater monitoring wells had a pH > 4.0. As a result, A-34-022 was sampled weekly during the monitoring period (January 23 and 31; February 7 and 14), while all other wells were sampled once during the week of February 11, 2013. According to the Work Plan, 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 February 11, 2013, the monitoring wells were uncapped and allowed to stand for a minimum of 15 minutes in order for the water level in the well 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 are presented in Figure 3 and Table 2. Figure 3 and Table 2 also include the groundwater elevation data from December 10, 2012 for comparison. Historical groundwater elevation data are presented in Table 3.

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 4. The field parameter measurements from the October and December 2012 groundwater sampling are also included in Table 4. 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 all samples except the February 14, 2013 sample from monitoring well A-36-145 (24.4 NTU). 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. The purge rate during each sampling event at A-34-022 was approximately 1.4 gallons per minute (gpm), which resulted in a sustained drawdown during purging of between approximately 1.5 and 2 feet.

The groundwater samples were collected in pre-preserved containers supplied by the laboratory as detailed below. Groundwater samples collected for metals and orthophosphate were field filtered using a 0.45-micron in-line filter prior to sample preservation. All other wet chemistry analytes were submitted for laboratory analysis as total (i.e. unfiltered) samples. Although not included in this monthly monitoring report, all groundwater samples collected after February 25, 2013 were submitted for total (i.e. unfiltered) metals analysis, as requested by EPA.

The groundwater samples were analyzed for the following parameters:

- total dissolved solids (TDS) by Standard Method 2540C
- dissolved 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 $CaCO_3$ by Standard Method 2320B
- bicarbonate and carbonate alkalinity as $CaCO_3$ 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 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 elevations measured on February 11, 2013, were generally consistent with groundwater elevations measured on December 10, 2012 (Figure 3 and Table 2). For bedrock monitoring wells, the groundwater elevations were between 0.18 and 2.27 feet higher on February 11, 2013 than on December 10, 2012. Groundwater elevations in the four monitoring wells screened within the sedimentary aquifer or at the basalt-sedimentary contact increased by approximately 1 foot or more (A-36-105 [+0.99 feet]; A-36-145 [+1.01 feet]; MW-A-110 [+2.27 feet]; and MW-B-120 [+1.94 feet]) while groundwater elevations in the four monitoring wells screened within the basalt aquifer increased by less than 1 foot (A-27-090 [+0.18 feet]; A-27-135 [+0.56 feet]; A-35-080 [+0.80 feet]; and A-35-155 [+0.85 feet]).

Final field parameters during the January and February 2013 sampling were consistent with field parameters measured during the October and December 2012 sampling events all ten wells (Table 4).

Laboratory analytical results for the January and February 2013 samples are presented in Figures 4 and 5 and in Table 5. Table 6 includes the historical sampling results from October 2010 through February 15, 2013. The laboratory data reports are provided in Enclosure A.

<u>Monitoring Well A-34-022</u>

The pH values among the four primary samples and one duplicate from groundwater monitoring well A-34-022 were between 2.11 and 2.31 S.U. The Idaho Secondary Constituent Standard range for pH is between 6.5 and 8.5 S.U.

Five dissolved metals were detected at concentrations above their respective EPA Maximum Contaminant Levels (MCLs) or Idaho Primary or Secondary Constituent Standards. Aluminum

concentrations ranged between 1,260 and 1,860 mg/l, above the Idaho Secondary Constituent Standard of 0.2 mg/l. Arsenic concentrations ranged between 0.229 and 0.343 mg/l, above the MCL of 0.01 mg/l. Cadmium concentrations ranged between 3.30 and 4.10 mg/l, above the MCL of 0.005 mg/l. Chromium concentrations ranged between 3.22 and 3.80 mg/l, above the MCL of 0.1 mg/l. Iron concentrations ranged between 1,380 and 2,420 mg/l, above the Idaho Secondary Constituent Standard of 0.3 mg/l.

Among wet chemistry parameters, fluoride, sulfate, and TDS were detected at concentrations above MCLs or Idaho Primary or Secondary Constituent Standards. Fluoride concentrations ranged between 2,180 and 2,410 mg/l, above the MCL of 4 mg/l. Sulfate concentrations ranged between 14,800 and 20,900 mg/l, above the Idaho Secondary Constituent Standard of 250 mg/l. TDS concentrations ranged between 25,300 and 38,800 mg/l, above the above the Idaho Secondary Constituent Standard of 500 mg/l.

Figure 6 shows time-series graphs of constituent concentrations above MCLs or Idaho Primary Constituent Standards in samples from A-34-022, and Figure 7 shows time- series graphs of constituent concentrations above Idaho Secondary Constituent Standards in samples from A-34-022.

Tables 5 and 6 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 -25.50% to +2.74%, and four of the five analyses had negative charge balance errors.

Figure 8 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 in December 2012, however, the addition of aluminum and iron to the analyte list for the January and February 2013 samples reveals that these two cations 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.

Bedrock Monitoring and Production Wells

The pH values among the samples from the bedrock wells were between 5.56 and 7.04 S.U. The pH values in three samples were below the Idaho Secondary Constituent Standard range of 6.5 to 8.5 S.U. (A-27-090 [6.45]; A-36-105 [6.01]; and MW-A-110 [5.56]).

Four dissolved metals were detected at concentrations above their respective EPA Maximum Contaminant Levels (MCLs) or Idaho Primary or Secondary Constituent Standards. Aluminum was detected above the Idaho Secondary Constituent Standard of 0.2 mg/l in samples from A-36-105 (0.8 mg/l), MW-A-110 (5.41 mg/l), MW-B-120 (0.524 mg/l), and NW-9 (2.19 mg/l). Arsenic was detected above the MCL of 0.01 mg/l in samples from A-27-090 (0.0203 mg/l), A-27-135 (0.0454 mg/l), and A-35-080 (0.013 mg/l). Cadmium concentrations above the MCL of 0.005 mg/l were detected in samples from A-36-105 (0.0131 mg/l) and MW-A-110 (0.0264 mg/l). Iron was detected in the sample from A-36-105 (2.96 mg/l) above the Idaho Secondary Constituent Standard of 0.3 mg/l.

Among wet chemistry parameters, chloride, fluoride, nitrate, sulfate, and TDS were detected at concentrations above MCLs or Idaho Primary or Secondary Constituent Standards. Chloride was detected in the sample from MW-A-110 (300 mg/l) above the Idaho Secondary Constituent

Standard of 250 mg/l. Fluoride concentrations above the MCL of 4 mg/l were detected in the samples from A-27-135 (19.6 mg/l), MW-A-110 (13.6 mg/l), MW-B-120 (16.3 mg/l), and NW-9 (12.1 mg/l). Nitrate concentrations above the MCL of 10 mg/l were detected in the samples from A-27-090 (66.8 mg/l), A-27-135 (19.3 mg/l), A-35-080 (58.1 mg/l), MW-A-110 (238 mg/l), and NW-9 (22.2 mg/l). Sulfate concentrations above the Idaho Secondary Constituent Standard of 250 mg/l were detected in the samples from all ten wells, with the highest concentrations in the samples from A-36-105 (3,700 mg/l) and A-36-145 (2,640 mg/l). Similarly, TDS concentrations were above the Idaho Secondary Constituent Standard of 500 mg/l in the samples from all ten wells, with the highest concentrations in the samples from A-36-105 (4,970 mg/l), A-36-145 (4,630 mg/l), and MW-A-110 (4,180 mg/l).

Charge balance errors for samples from the bedrock wells varied from -11.71% to +3.57%. Five of ten samples (including one duplicate sample) had charge balance errors less than ± 5%.

Figure 8 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. The major ion geochemistry results are consistent with results for samples collected in October and December 2012.

QA/QC Sample Results

Two duplicate groundwater samples were collected (DUP01312013, duplicate of A-34-022 on January 31, 2013; and DUP02132013, duplicate of A-35-155 on February 13, 2013). The analytical results for the duplicate samples are consistent with the results for the associated primary samples.

One equipment blank sample was collected (EB 02142013) was collected from the decontaminated pump used for the bedrock monitoring well sampling. Only estimated concentrations of calcium, total phosphorus, and TDS were detected in the equipment blank sample.

Discussion of Results

The groundwater monitoring results indicate minimal change in the groundwater quality in samples collected from monitoring well A-34-022 during the December 2012 sampling event and the January/February 2013 sampling events. Weekly samples contained relatively constant pH and constituent concentrations (Figure 6 and 7). The continuously monitored groundwater elevation at A-34-022 fluctuated over several feet during the monitoring period, primarily as a response to local precipitation and infiltration (Figure 1A and 1B).

Similarly, groundwater elevations in the bedrock wells and constituent concentrations in February 2013 were generally consistent with the previous sampling results from October and December 2013 (Figures 3, 4, and 5).

Overall, the results indicate that groundwater monitoring on a weekly, bi-weekly, or monthly basis is not necessary to support conclusions that could otherwise be made with data generated on a less frequent basis (e.g. quarterly or semi-annually).

Nu-West will continue to evaluate the monitoring objectives and results to assess the effectiveness of the program. After three months of monitoring, if the groundwater monitoring

results indicate that the primary objective (i.e. to assess impact to the underlying basalt and sedimentary aquifers) can be met with a modified monitoring program, Nu-West may request that EPA approve changes to the monitoring frequency, changes to the list of included wells, or changes to the analyte list in order to better align resources with the overall site characterization activities being implemented in 2013.

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

Sincerely,

James P. Bulman
Executive Vice President

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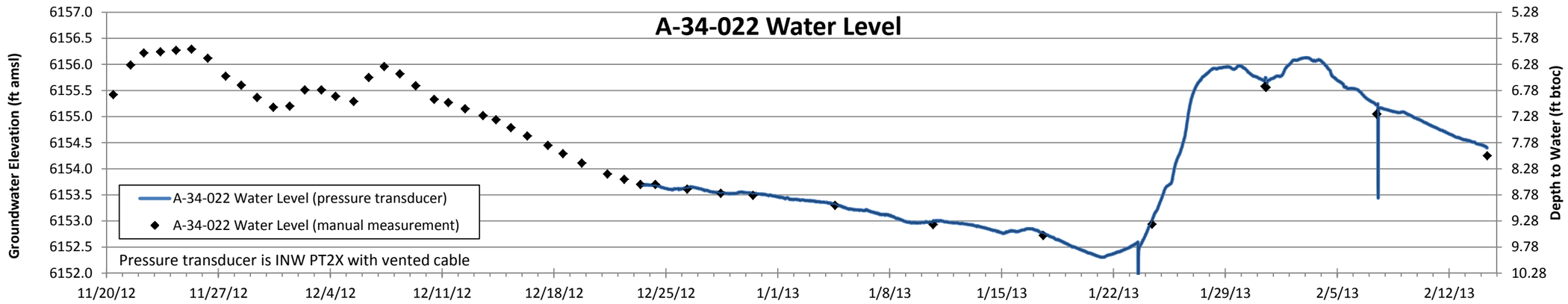
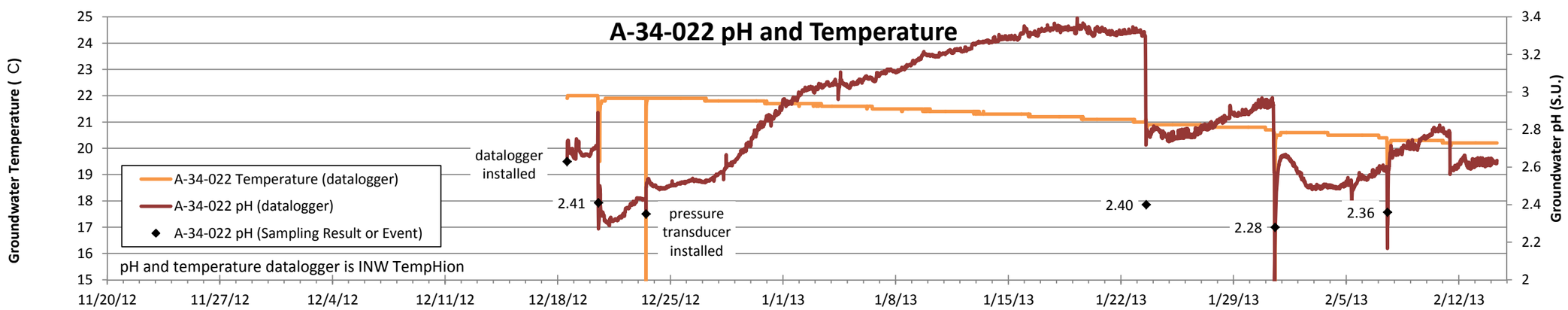
Enclosures

cc: Brian Monson, Idaho Department of Environmental Quality
Brian English, Idaho Department of Environmental Quality
Clyde Cody, Idaho Department of Environmental Quality
P. Scott Burton, Esq., Hunton & Williams
J. Wayne Maxie, Nu-West Industries
James Cagle, Nu-West Industries

Figures





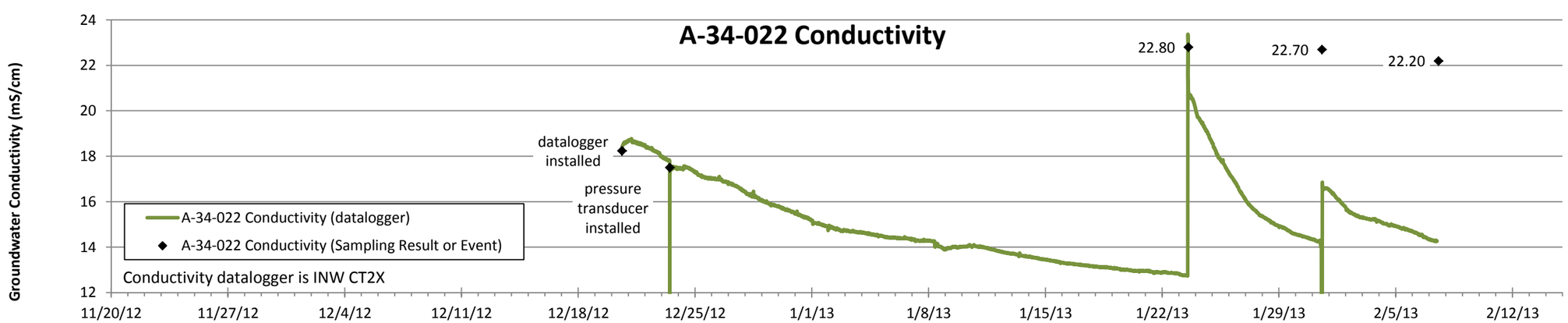


Figure 1A
A-34-022 Datalogger and Pressure transducer Results
Nu-West Industries, Inc.
Conda Phospahte Operations
Soda Springs, Idaho

4600 South Ulster Street, Suite 930
Denver, Colorado 80237
303-850-9200

WSP

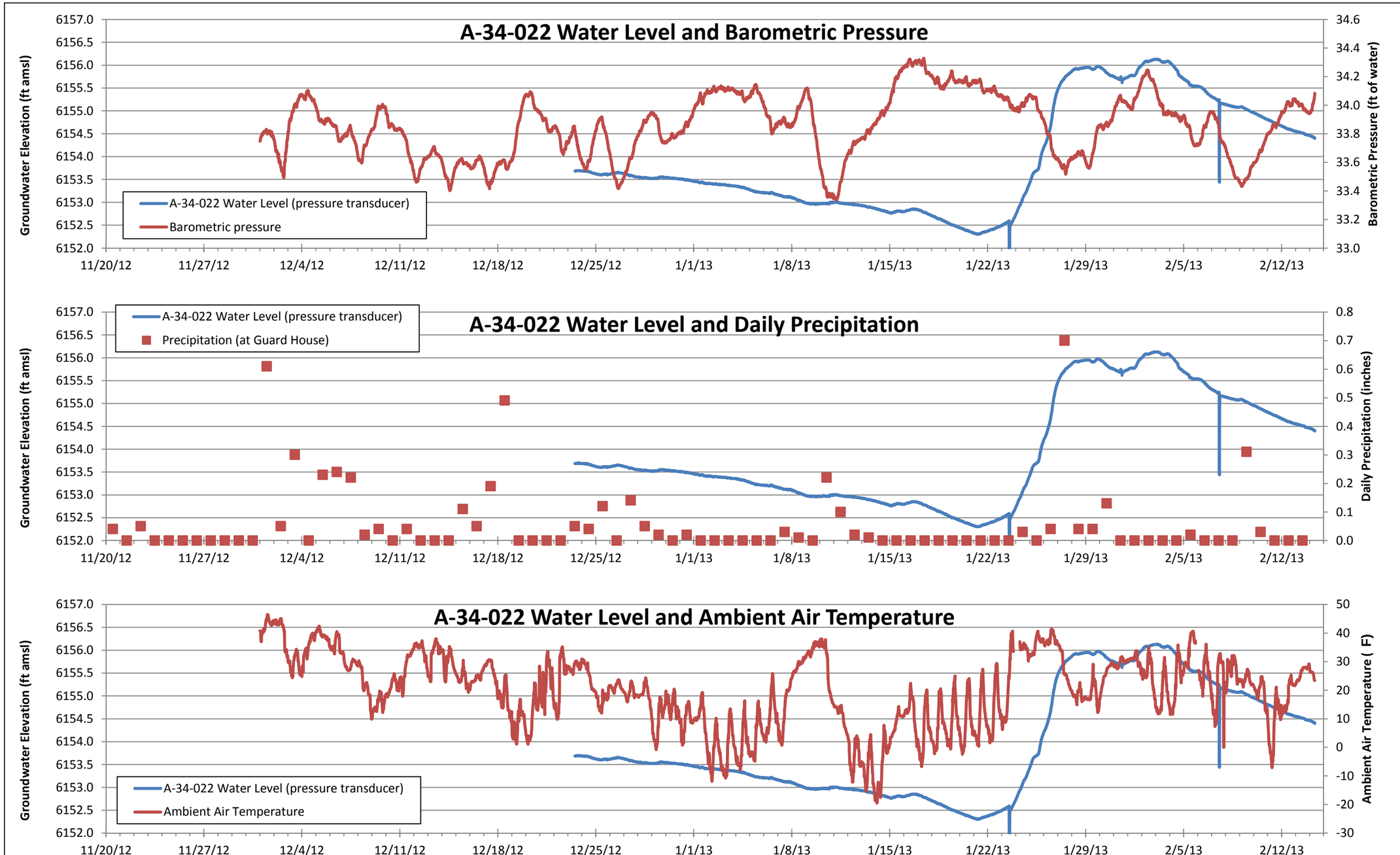


Figure 1B
A-34-022 Pressure transducer Results and Weather Data
Nu-West Industries, Inc.
Conda Phospahte Operations
Soda Springs, Idaho

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Denver, Colorado 80237
303-850-9200

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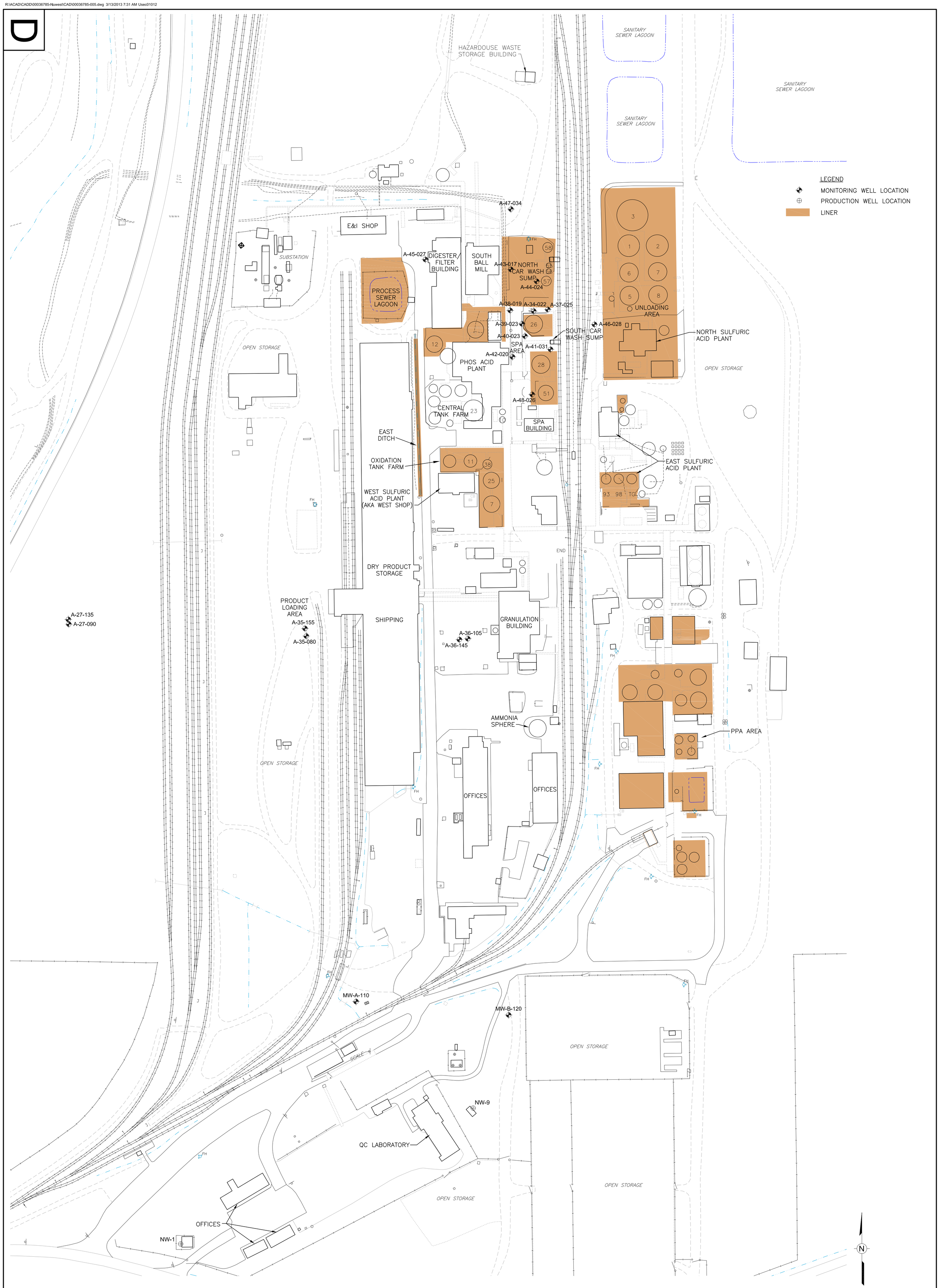

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Drawing Number 00036785-005

FIGURE 2

WSP

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www.wspenvironmental.com/usa

MONITORING AND PRODUCTION WELL LOCATIONS MAIN PROCESSING AREA

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

DRAWN BY		
CHECKED	TAH	3/13/2013
APPROVED		

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DATE

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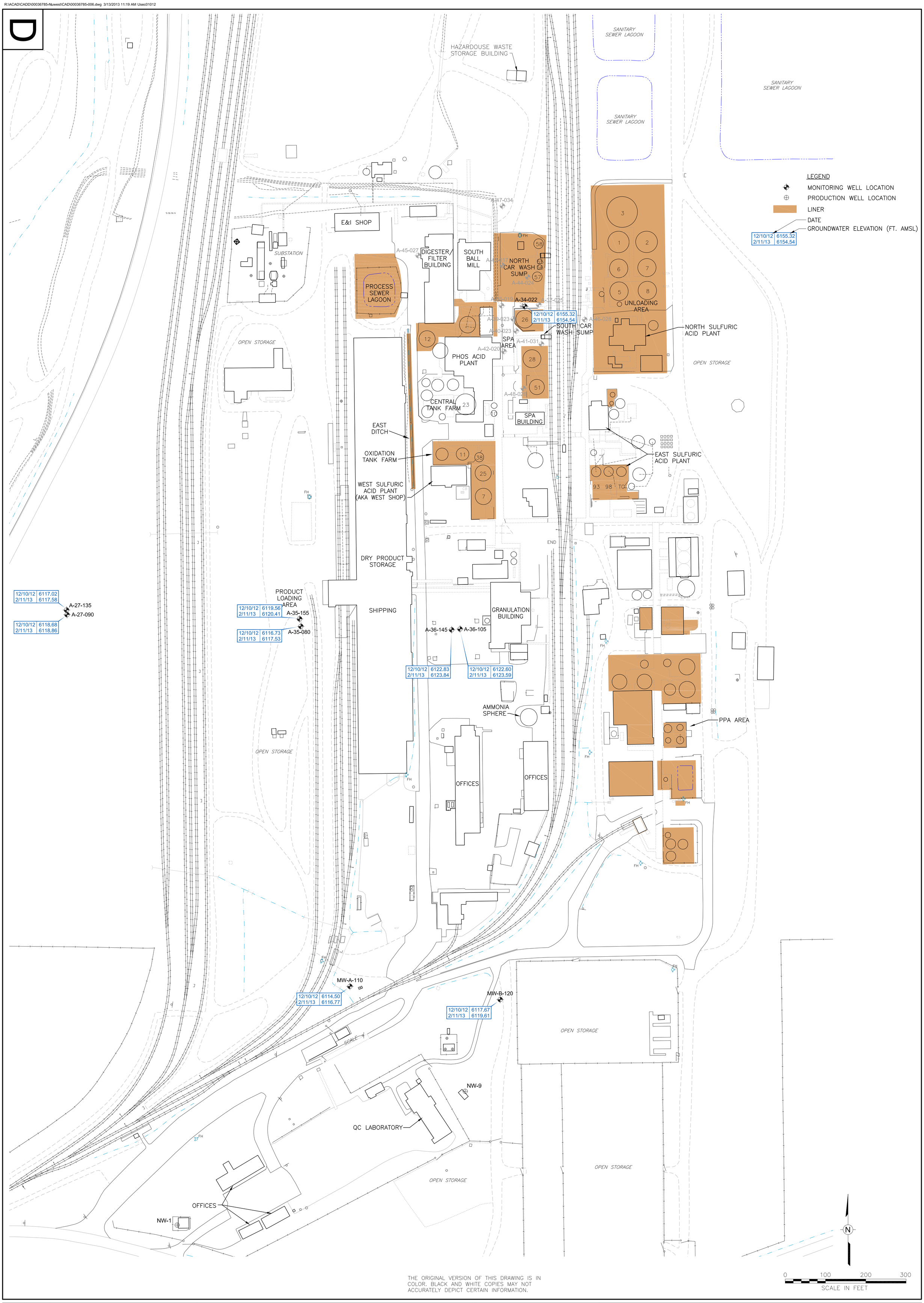

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FIGURE 3

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GROUNDWATER ELEVATION DATA MAIN PROCESSING AREA

NU-WEST CPO FACILITY
SODA SPRINGS, IDAHO

PREPARED FOR

HUNTON & WILLIAMS

DRAWN BY		
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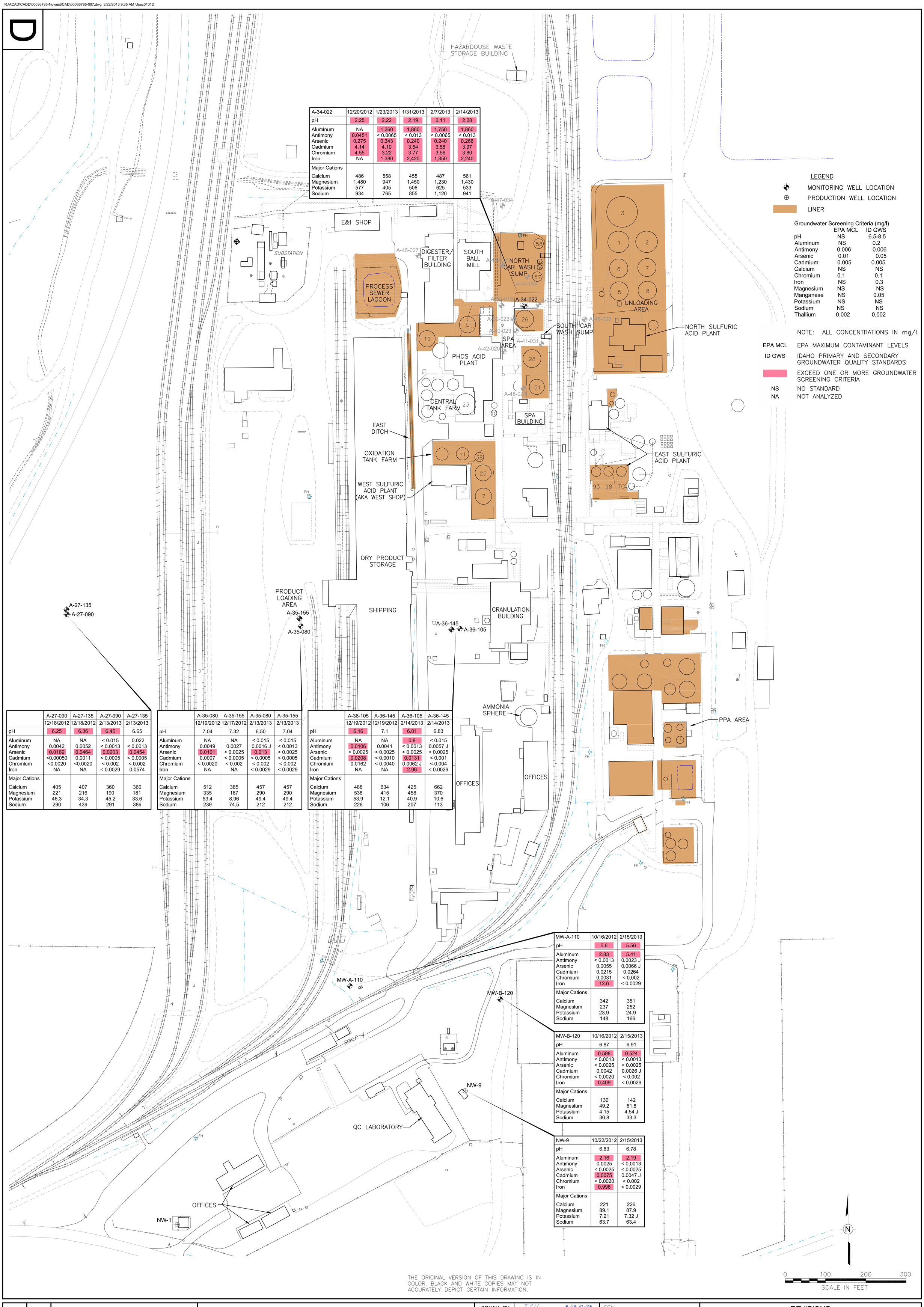

A-34-022	12/20/2012	1/23/2013	1/31/2013	2/7/2013	2/14/2013
pH	2.25	2.22	2.19	2.11	2.28
Aluminum	NA	1,260	1,860	1,750	1,860
Antimony	0.0451	< 0.0065	< 0.013	< 0.0065	< 0.013
Arsenic	0.275	0.343	0.240	0.240	0.266
Cadmium	4.14	4.10	3.54	3.58	3.97
Chromium	4.55	3.22	3.77	3.56	3.80
Iron	NA	1,380	2,420	1,850	2,240
Major Cations					
Calcium	486	558	455	487	561
Magnesium	1,480	947	1,450	1,230	1,430
Potassium	577	405	506	625	533
Sodium	934	765	855	1,120	941

LEGEND

MONITORING WELL LOCATION

PRODUCTION WELL LOCATION

LINER

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
Sodium	NS	NS
Thallium	0.002	0.002

NOTE: ALL CONCENTRATIONS IN mg/l.

EPA MCL — EPA MAXIMUM CONTAMINANT LEVELS

ID GWS — IDAHO PRIMARY AND SECONDARY GROUNDWATER QUALITY STANDARDS

EXCEED ONE OR MORE GROUNDWATER SCREENING CRITERIA

NS — NO STANDARD

NA — NOT ANALYZED

	A-27-090	A-27-135	A-27-090	A-27-135
	12/18/2012	12/18/2012	2/13/2013	2/13/2013
pH	6.25	6.36	6.45	6.65
Aluminum	NA	NA	< 0.015	0.022
Antimony	0.0042	0.0052	< 0.0013	< 0.0013
Arsenic	0.0189	0.0464	0.0203	0.0454
Cadmium	<0.00050	0.0011	< 0.0005	< 0.0005
Chromium	<0.0020	<0.0020	< 0.002	< 0.002
Iron	NA	NA	< 0.0029	0.0574
Major Cations				
Calcium	405	407	360	360
Magnesium	221	216	190	181
Potassium	46.3	34.3	45.2	33.6
Sodium	290	439	291	386

	A-35-080	A-35-155	A-35-080	A-35-155
	12/19/2012	12/17/2012	2/13/2013	2/13/2013
pH	7.04	7.32	6.50	7.04
Aluminum	NA	NA	< 0.015	< 0.015
Antimony	0.0049	0.0027	0.0016 J	< 0.0013
Arsenic	0.0101	< 0.0025	0.013	< 0.0025
Cadmium	0.0007	< 0.0005	< 0.0005	< 0.0005
Chromium	< 0.0020	< 0.002	< 0.002	< 0.002
Iron	NA	NA	< 0.0029	< 0.0029
Major Cations				
Calcium	512	385	457	457
Magnesium	335	167	290	290
Potassium	53.4	8.96	49.4	49.4
Sodium	239	74.5	212	212

	A-36-105	A-36-145	A-36-105	A-36-145
	12/19/2012	12/19/2012	2/14/2013	2/14/2013
pH	6.16	7.1	6.01	6.83
Aluminum	NA	NA	0.8	< 0.015
Antimony	0.0106	0.0041	< 0.0013	0.0057 J
Arsenic	< 0.0025	< 0.0025	< 0.0025	< 0.0025
Cadmium	0.0208	< 0.0010	0.0131	< 0.001
Chromium	0.0162	< 0.0040	0.0062 J	< 0.004
Iron	NA	NA	2.96	< 0.0029
Major Cations				
Calcium	488	634	425	662
Magnesium	538	415	458	370
Potassium	53.9	12.1	40.9	10.6
Sodium	226	106	207	113

MW-A-110	10/16/2012	2/15/2013
pH	5.6	5.56
Aluminum	2.83	5.41
Antimony	< 0.0013	0.0023 J
Arsenic	0.0055	0.0066 J
Cadmium	0.0215	0.0264
Chromium	0.0031	< 0.002
Iron	12.6	< 0.0029
Major Cations		
Calcium	342	351
Magnesium	237	252
Potassium	23.9	24.9
Sodium	148	166

MW-B-120	10/16/2012	2/15/2013
pH	6.87	6.91
Aluminum	0.598	0.524
Antimony	< 0.0013	< 0.0013
Arsenic	< 0.0025	< 0.0025
Cadmium	0.0042	0.0026 J
Chromium	< 0.0020	< 0.002
Iron	0.409	< 0.0029
Major Cations		
Calcium	130	142
Magnesium	49.2	51.8
Potassium	4.15	4.54 J
Sodium	30.8	33.3

NW-9	10/22/2012	2/15/2013
pH	6.83	6.78
Aluminum	2.16	2.19
Antimony	0.0025	< 0.0013
Arsenic	< 0.0025	< 0.0025
Cadmium	0.0075	0.0047 J
Chromium	< 0.0020	< 0.002
Iron	0.996	< 0.0029
Major Cations		
Calcium	221	226
Magnesium	89.1	87.9
Potassium	7.21	7.32 J
Sodium	63.7	63.4

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FIGURE 4

WSP

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GROUNDWATER SAMPLING ANALYTICAL RESULTS FOR DISSOLVED METALS AND pH MAIN PROCESSING AREA

NU-WEST CPO FACILITY
SODA SPRINGS, IDAHO

PREPARED FOR

HUNTON & WILLIAMS

DRAWN BY TAH 3/13/2013
CHECKED
APPROVED

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3	Revised:	Chkd:	Appr.:

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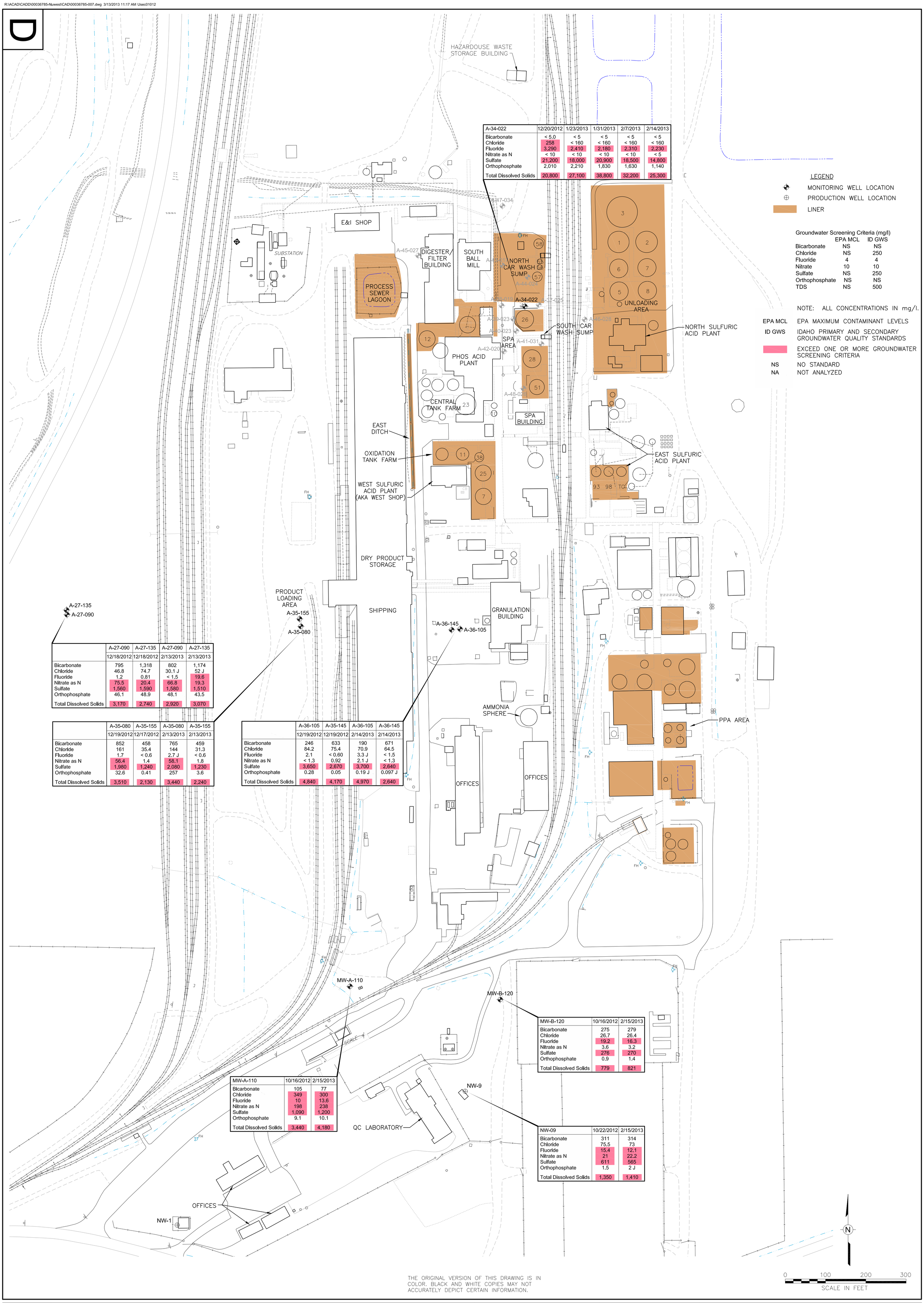

A-34-022	12/20/2012	1/23/2013	1/31/2013	2/7/2013	2/14/2013
Bicarbonate	< 5.0	< 5	< 5	< 5	< 5
Chloride	258	< 160	< 160	< 160	< 160
Fluoride	3,290	2,410	2,180	2,310	2,230
Nitrate as N	< 10	< 10	< 10	< 10	< 5
Sulfate	21,200	18,000	20,900	18,500	14,800
Orthophosphate	2,010	2,210	1,830	1,630	1,140
Total Dissolved Solids	20,800	27,100	38,800	32,200	25,300

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-27-090	A-27-135	A-27-090	A-27-135
12/18/2012	12/18/2012	2/13/2013	2/13/2013
Bicarbonate 795	1,318	802	1,174
Chloride 46.8	74.7	30.1 J	52 J
Fluoride 1.2	0.81	< 1.5	19.6
Nitrate as N 75.5	20.4	66.8	19.3
Sulfate 1,560	1,590	1,580	1,510
Orthophosphate 46.1	48.9	48.1	43.5
Total Dissolved Solids 3,170	2,740	2,920	3,070

A-35-080	A-35-155	A-35-080	A-35-155
12/19/2012	12/17/2012	2/13/2013	2/13/2013
Bicarbonate 852	458	765	459
Chloride 161	35.4	144	31.3
Fluoride 1.7	< 0.6	2.7 J	< 0.6
Nitrate as N 56.4	1.4	58.1	1.8
Sulfate 1,980	1,240	2,080	1,230
Orthophosphate 32.6	0.41	257	3.6
Total Dissolved Solids 3,510	2,130	3,440	2,240

A-36-105	A-35-145	A-36-105	A-36-145
12/19/2012	12/19/2012	2/14/2013	2/14/2013
Bicarbonate 246	633	190	671
Chloride 84.2	75.4	70.9	64.5
Fluoride 2.1	< 0.60	3.3 J	< 1.5
Nitrate as N < 1.3	0.92	2.1 J	< 1.3
Sulfate 3,650	2,670	3,700	2,640
Orthophosphate 0.28	0.05	0.19 J	0.097 J
Total Dissolved Solids 4,840	4,170	4,970	2,640

MW-A-110	10/16/2012	2/15/2013
Bicarbonate	105	77
Chloride	349	300
Fluoride	10	13.6
Nitrate as N	198	238
Sulfate	1,090	1,200
Orthophosphate	9.1	10.1
Total Dissolved Solids	3,440	4,180

MW-B-120	10/16/2012	2/15/2013
Bicarbonate	275	279
Chloride	26.7	26.4
Fluoride	19.2	16.3
Nitrate as N	3.6	3.2
Sulfate	276	270
Orthophosphate	0.9	1.4
Total Dissolved Solids	779	821

NW-09	10/22/2012	2/15/2013
Bicarbonate	311	314
Chloride	75.5	73
Fluoride	15.4	12.1
Nitrate as N	21	22.2
Sulfate	611	565
Orthophosphate	1.5	2 J
Total Dissolved Solids	1,350	1,410

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FIGURE 5

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GROUNDWATER SAMPLING ANALYTICAL RESULTS FOR WET CHEMISTRY PARAMETERS MAIN PROCESSING AREA

NU-WEST CPO FACILITY
SODA SPRINGS, IDAHO

PREPARED FOR

HUNTON & WILLIAMS

DRAWN BY TAH 3/13/2013
CHECKED
APPROVED

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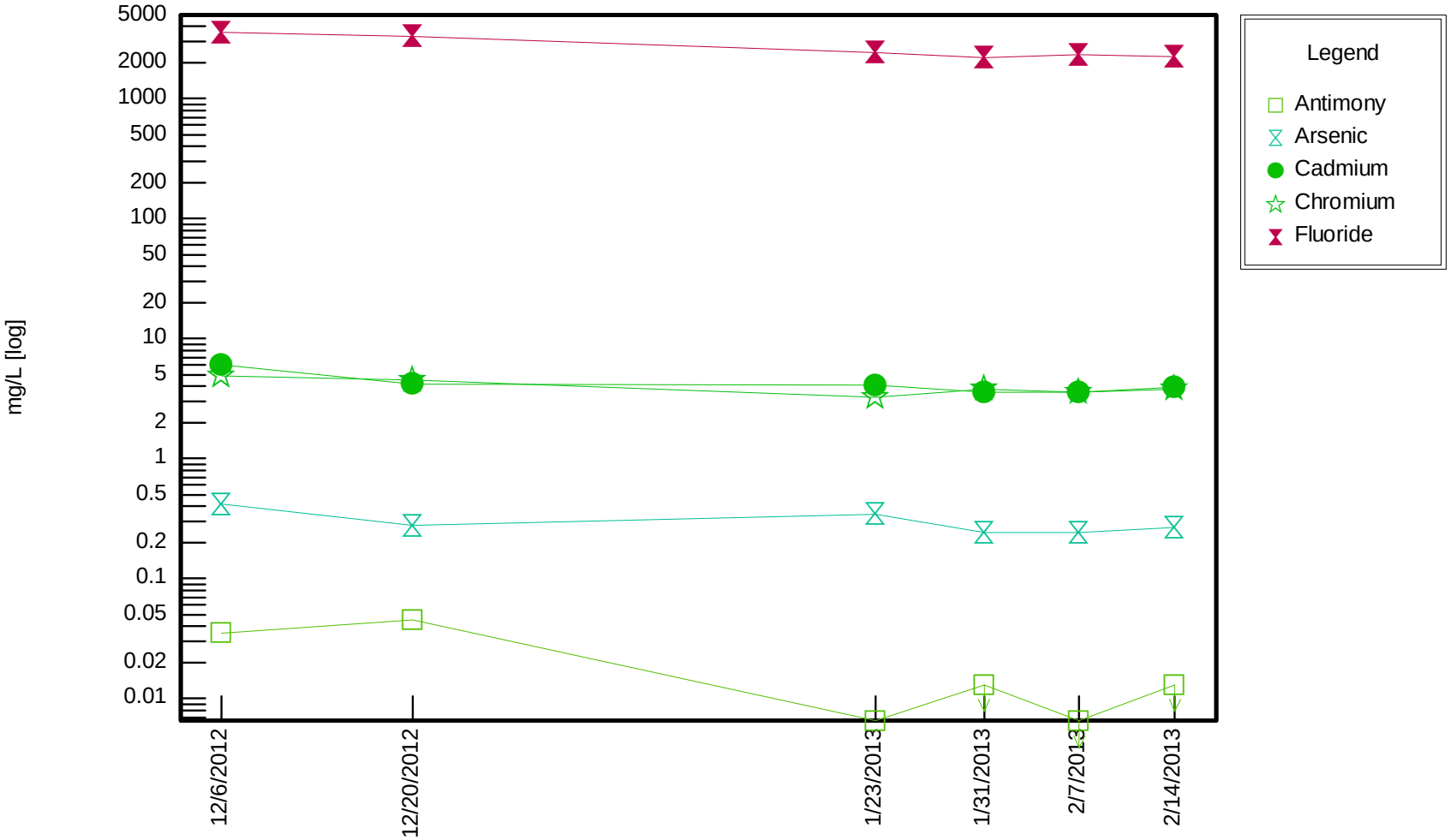
A-34-022 Time Series Plot



A

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FIGURE 6

A-34-022 GROUNDWATER SAMPLING RESULTS ABOVE EPA MCLS

NU-WEST CPO FACILITY
SODA SPRINGS, IDAHO
PREPARED FOR
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A-34-022 Time Series Plot

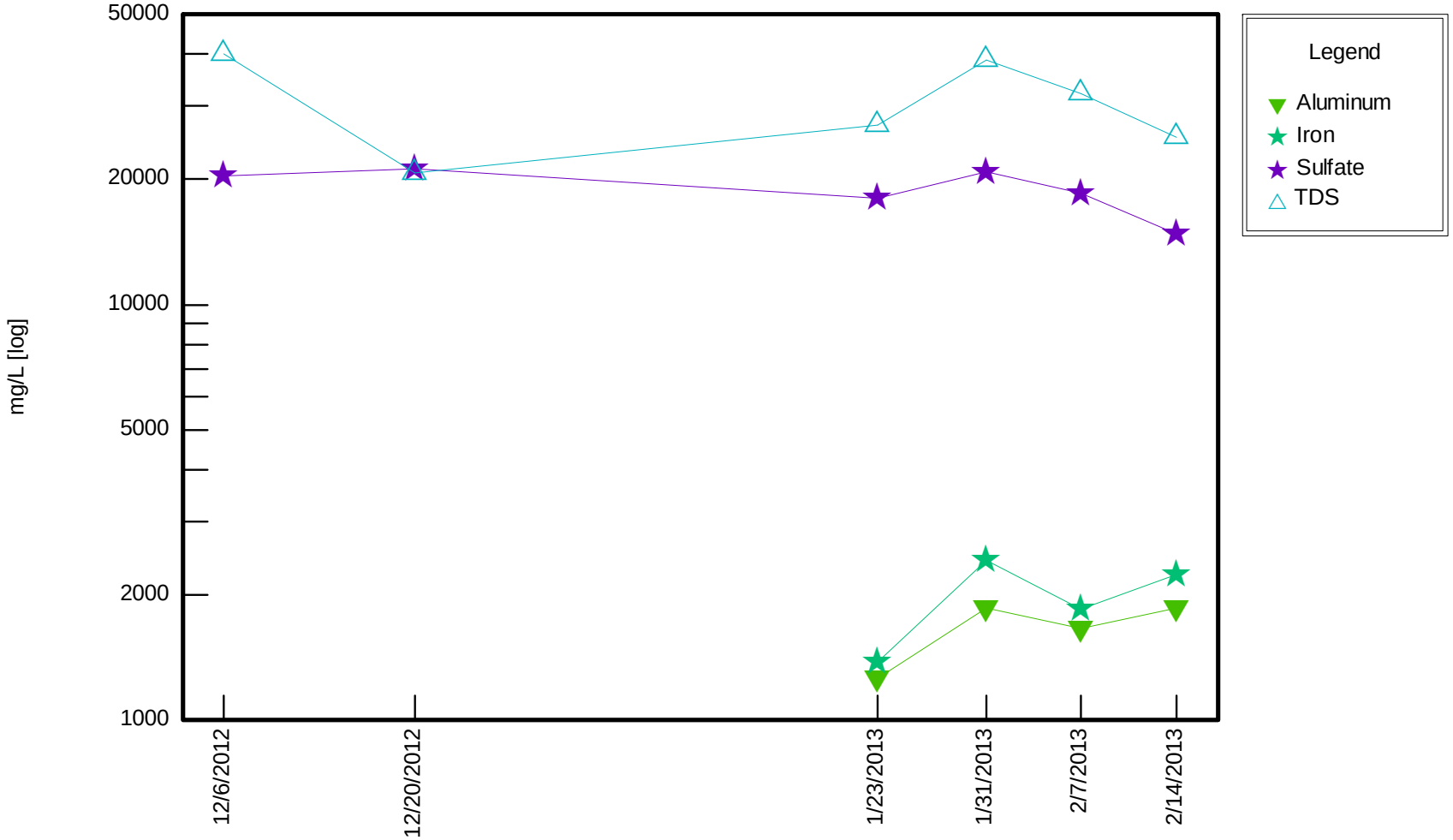

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FIGURE 7

A-34-022 GROUNDWATER SAMPLING RESULTS ABOVE IDAHO SECONDARY CONSTITUENT STANDARDS

NU-WEST CPO FACILITY
SODA SPRINGS, IDAHO
PREPARED FOR
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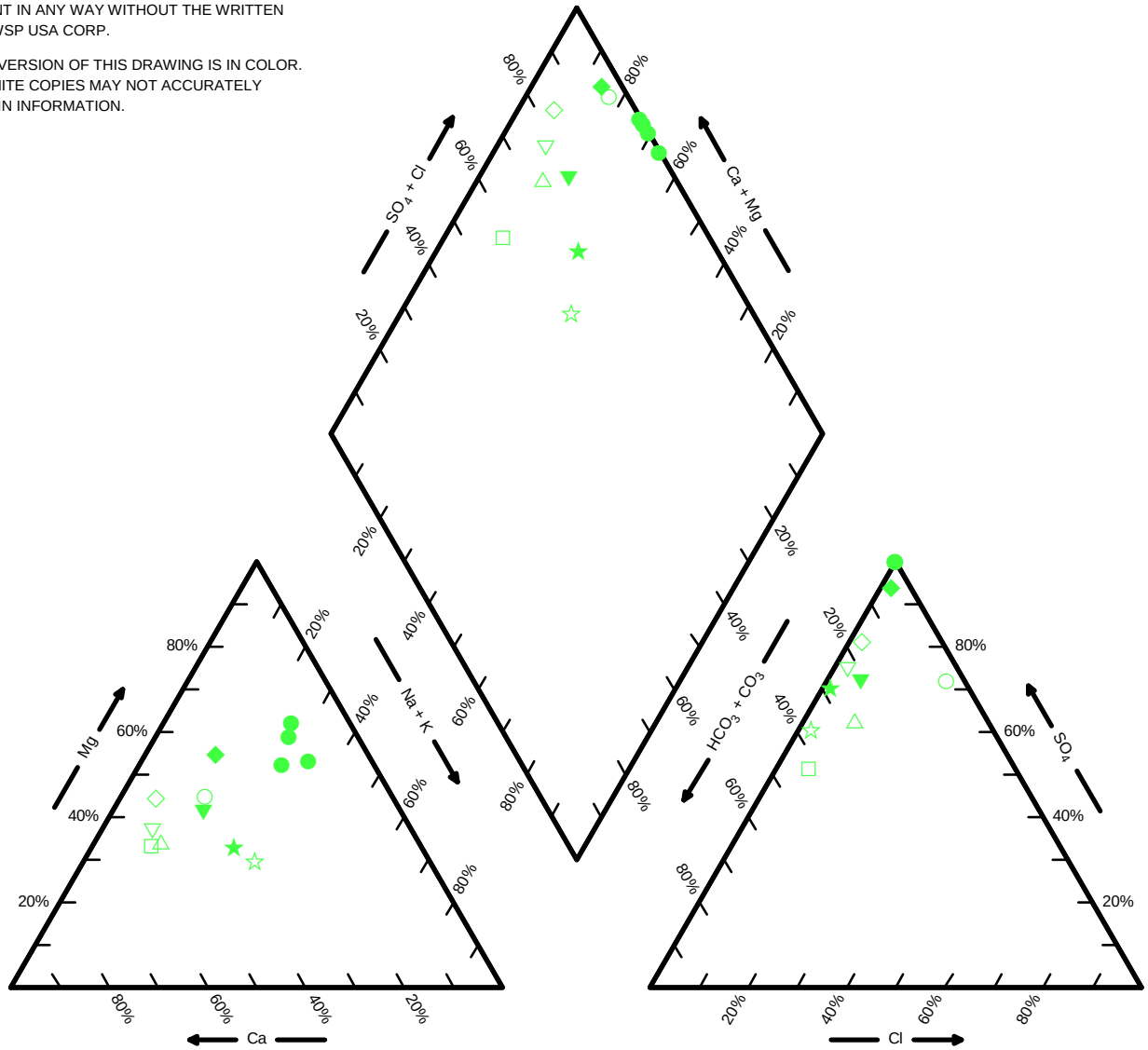

Legend

- A-27-090
- A-27-135
- A-34-022 - 1/23/13
- A-34-022 - 1/31/13
- A-34-022 - 2/07/13
- A-34-022 - 2/14/13
- A-35-080
- A-35-155
- A-36-105
- A-36-145
- MW-A-110
- MW-B-120
- NW-09

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FIGURE 8

PIPER DIAGRAM
GROUNDWATER SAMPLING RESULTS
JANUARY 23 - FEBRUARY 15, 2013

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

Drawn by: TAH
Checked:
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Tables

Table 1

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

Well ID	Old Well ID	Screened Aquifer	Northing[a] (ft)	Easting[a] (ft)	Top of Casing[a] (ft-msl)	Ground Surface Elevation (ft-msl)	Casing Diameter (inches)	Well Depth[b] (ft)	Borehole Depth[b] (ft)	Approximate Screened Interval (ft-bgs)	Approximate Screened Interval (ft-amsl)	Date Installed
Groundwater Monitoring Wells												
A-01-065	A-1	Alluvial	400820.47	825188.39	6225.04	6222.89	2	65	65	55 to 65	6168 to 6158	Nov-99
--	A-2[c,d]	Alluvial	399154.36	820631.94	6158.62	6159.38	2	30	30	20 to 30	6139 to 6129	Nov-99
A-02-167	A-2A	Basalt	400540.51	820544.12	6161.00	6159.38	2	167	200	97 to 167	6062 to 5992	Dec-03
A-03-108	A-3	Basalt	392893.30	819996.64	6152.88	6151.44	2	108	108	88 to 108	6063 to 6043	Nov-99
A-04-115	A-4	Basalt	393211.89	820786.10	6153.07	6151.52	2	115	115	95 to 115	6057 to 6037	Nov-99
A-05-193	A-5	Sedimentary	392253.47	820189.32	6153.50	6151.78	2	213	213	173 to 193	5979 to 5959	Nov-99
A-06-118	A-6	Sedimentary	392232.77	820201.53	6153.22	6151.75	2	118	118	98 to 118	6054 to 6034	Nov-99
A-07-120	A-7	Basalt	391329.12	820806.68	6153.42	6151.61	2	120	120	100 to 120	6052 to 6032	Nov-99
A-08-127	A-8	Basalt	391175.75	819947.89	6151.89	6150.30	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	390298.36	819825.71	6149.82	6148.04	2	150/149	150	90 to 150	6058 to 5998	Aug-01
A-10-199	A-10	Basalt	387443.80	818091.11	6127.76	6125.62	2	199	199	139 to 199	5987 to 5927	Oct-02
A-11-140	A-11	Basalt	392614.92	819043.56	6151.99	6150.49	2	140/142	148	100 to 140	6050 to 6010	May-07
A-12-110	A-12	Basalt	392584.25	818841.79	6129.81	6127.58	2	110/115	148	70 to 110	6058 to 6018	May-07
A-13-135	A-13	Sedimentary	390620.46	825815.20	6205.29	6204.03	2	135	200	115 to 135	6089 to 6069	Sep-11
A-14-180	A-14	Sedimentary	392788.79	825200.57	6192.49	6191.14	2	180	200	160 to 180	6031 to 6011	Oct-11
A-15-105	A-15	Basalt	392808.60	825194.39	6192.43	6191.05	2	105	105	85 to 105	6106 to 6086	Oct-11
A-16-190	A-16	Sedimentary	395736.62	824928.23	6244.87	6243.79	2	190	200	170 to 190	6074 to 6054	Oct-11
A-17-150	A-17	Sedimentary	399771.64	824724.58	6198.86	6198.00	2	150	200	130 to 150	6068 to 6048	Sep-11
A-18-110	A-18	Basalt	390853.89	820813.86	6151.31	6150.50	2	110	200	90 to 110	6061 to 6041	Oct-11
A-19-095	A-19	Basalt	391375.09	820809.63	6152.03	6151.80	2	95	95	75 to 95	6077 to 6057	Oct-11
A-20-056	A-20S	Basalt	391964.13	820804.31	6156.17	6154.81	1	56	56	36 to 56	6119 to 6099	Oct-11
A-20-090	A-20D	Basalt	391964.47	820804.17	6156.03	6154.81	2	90	90	70 to 90	6085 to 6065	Oct-11
A-21-185	A-21	Sedimentary	392986.78	820797.38	6154.83	6152.74	2	185	185	165 to 185	5988 to 5968	Nov-11
A-22-063	--	Basalt	393681.70	820788.61	6153.93	6152.62	4	63	75.3	53 to 63	6100 to 6090	Nov-12
A-23-095	A-23	Basalt	394629.10	820779.59	6152.22	6151.56	2	95	95	75 to 95	6077 to 6057	Nov-11
A-25-085	A-25S	Basalt	396000.35	820744.86	6157.43	6156.00	2	85	65	65 to 85	6091 to 6071	Nov-11
A-25-185	A-25D	Basalt	396000.39	820745.16	6157.36	6156.00	2	185	185	165 to 185	5991 to 5971	Nov-11
A-26-060	--	Basalt	392504.95	820799.27	6155.29	6154.31	4	60	100	50 to 60	6104 to 6094	Nov-12
A-27-090	--	Basalt	391084.11	822991.57	6153.36	6151.64	4	90	90	70 to 90	6082 to 6062	Oct-12
A-27-135	--	Basalt	391095.71	822990.22	6152.80	6151.47	4	135	138	125 to 135	6026 to 6016	Oct-12
A-28-110	--	Basalt	388945.81	820980.95	6142.74	6141.02	4	110	110	90 to 110	6051 to 6031	Oct-12
A-28-165	--	Basalt	388948.71	820999.73	6142.75	6140.94	4	165	173	145 to 165	5996 to 5976	Oct-12
A-29-145	--	Basalt	388752.06	820326.66	6147.75	6145.92	4	145	145	135 to 145	6011 to 6001	Oct-12
A-29-195	--	Basalt	388770.83	820330.40	6147.62	6145.92	4	195	195.5	180 to 195	5966 to 5951	Oct-12

Table 1

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

Well ID	Old Well ID	Screened Aquifer	Northing[a] (ft)	Easting[a] (ft)	Top of Casing[a] (ft-msl)	Ground Surface Elevation (ft-msl)	Casing Diameter (inches)	Well Depth[b] (ft)	Borehole Depth[b] (ft)	Approximate Screened Interval (ft-bgs)	Approximate Screened Interval (ft-amsl)	Date Installed
Groundwater Monitoring Wells												
A-30-135	--	Basalt	388694.90	820056.30	6116.40	6114.91	4	135	135	125 to 135	5990 to 5980	Nov-12
A-30-175	--	Basalt	388715.75	820056.63	6116.84	6115.35	4	175	175	165 to 175	5950 to 5940	Nov-12
A-31-130	--	Basalt	389490.29	819692.67	6117.10	6115.33	4	130	130	110 to 130	6005 to 5985	Nov-12
A-31-170	--	Basalt	389474.31	819697.81	6117.80	6115.39	4	170	175	150 to 170	5965 to 5945	Nov-12
A-32-110	--	Basalt	390194.48	819460.41	6118.35	6117.63	4	110	110	90 to 110	6028 to 6008	Nov-12
A-32-150	--	Basalt	390212.48	819453.76	6118.91	6117.83	4	150	156	130 to 150	5988 to 5968	Nov-12
A-34-022	--	Soil-Bedrock	391848.79	824127.60	6162.28	6160.86	4	22	22	12 to 22	6149 to 6139	Nov-12
A-35-080	--	Basalt	391055.18	823571.75	6159.01	6157.39	4	80	81	60 to 80	6097 to 6077	Nov-12
A-35-155	--	Basalt	391073.65	823568.67	6158.92	6157.37	4	155	156	135 to 155	6022 to 6002	Nov-12
A-36-105	--	Basalt-Sedimentary	391048.63	823966.68	6160.48	6159.44	4	105	105	95 to 105	6064 to 6054	Dec-12
A-36-145	--	Sedimentary	391046.53	823945.97	6160.54	6159.36	4	145	147	125 to 145	6034 to 6014	Dec-12
A-37-025	--	Soil-Bedrock	391852.74	824162.10	6163.63	6163.04	4	25	25	15 to 25	6148 to 6138	Feb-13
A-38-019	--	Soil-Bedrock	391850.52	824070.12	6161.96	6159.56	4	19	19	9 to 19	6151 to 6141	Feb-13
A-39-023	--	Soil-Bedrock	391817.72	824098.82	6159.58	6159.97	4	23	23	13 to 23	6147 to 6137	Feb-13
A-40-023	--	Soil-Bedrock	391787.76	824106.24	6162.65	6160.56	4	23	23	13 to 23	6148 to 6138	Feb-13
A-41-031	--	Soil-Bedrock	391755.44	824168.66	6161.30	6161.68	4	31	33	21 to 31	6141 to 6131	Feb-13
A-42-020	--	Soil-Bedrock	391737.06	824075.77	6161.96	6159.84	4	20	20	10 to 20	6150 to 6140	Feb-13
A-43-017	--	Soil-Bedrock	391950.66	824071.89	6161.80	6159.65	4	17	17	7 to 17	6153 to 6143	Feb-13
A-44-024	--	Soil-Bedrock	391921.56	824134.95	6160.14	6160.57	4	24	24	14 to 24	6147 to 6137	Feb-13
A-45-027	--	Soil-Bedrock	391975.03	823862.82	6162.50	6159.47	4	27	27	17 to 27	6142 to 6132	Feb-13
A-46-028	--	Soil-Bedrock	391816.37	824276.03	6163.55	6160.97	4	28	28	18 to 28	6143 to 6133	Feb-13
A-47-034	--	Soil-Bedrock	392097.97	824071.86	6161.50	6159.23	4	34	34	24 to 34	6135 to 6125	Feb-13
A-48-026	--	Soil-Bedrock	391645.35	824123.77	6164.18	6161.16	4	26	26	16 to 26	6145 to 6135	Feb-13
MW05-1-265	MW05-1	Basalt	403417.25	817949.06	6165.86	6164.85	2	265	265	165 to 265	6000 to 5900	Aug-05
MW05-2-100	MW05-2	Basalt	401712.50	819953.80	6164.11	6163.04	2	100/97	345	20 to 100	6143 to 6063	Aug-05
MW05-3-240	MW05-3	Basalt	396899.51	819158.98	6154.98	6154.07	2	240	247	140 to 240	6014 to 5914	Aug-05
MW05-4-260	MW05-4	Basalt	396854.85	817856.40	6173.76	6173.41	2	260	265	160 to 260	6013 to 5913	Aug-05
MW05-5-240	MW05-5	Basalt	395406.20	818066.73	6181.07	6179.40	2	240/259	240	140 to 240	6039 to 5939	Aug-05
MW-A-110	MW-A	Basalt-Sedimentary	390162.21	823693.47	6159.21	6157.85	2	110	110	60 to 110	6098 to 6048	Nov-04
MW-B-120	MW-B	Basalt-Sedimentary	390129.59	824066.30	6167.75	6166.09	2	120	120	60 to 120	6106 to 6046	Nov-04

Table 1

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

Well ID	Old Well ID	Screened Aquifer	Northing[a] (ft)	Easting[a] (ft)	Top of Casing[a] (ft-msl)	Ground Surface Elevation (ft-msl)	Casing Diameter (inches)	Well Depth[b] (ft)	Borehole Depth[b] (ft)	Approximate Screened Interval (ft-bgs)	Approximate Screened Interval (ft-amsl)	Date Installed
Nu-West Production Wells[e]												
NW-1	NW-1	Basalt-Sedimentary	389570.21	823264.86	--	--	20 & 16	280	280	45 to 240	-- to --	Oct-64
NW-5	NW-5	Basalt	395506.51	820967.45	--	6154.75	16	272	272	50 to 260	6105 to 5895	Nov-65
NW-7	NW-7	Sedimentary	391220.27	826229.32	--	6245.40	24 & 16	503	503	104 to 465	6141 to 5780	Sep-88
NW-8	NW-8	Sedimentary	391976.24	826632.55	--	6308.92	24 & 16	600	600	367 to 527	5942 to 5782	Sep-92
NW-9	NW-9	Basalt-Sedimentary	389904.93	823970.66	--	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	400730.36	821736.17	--	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	401510.80	820383.01	--	--	16	325	325	162 to 325	-- to --	Sep-06
Mtn Fuel	Mtn Fuel	Basalt	396814.20	820979.01	--	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	389171.98	821994.22	--	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	389439.01	822387.96	--	6146.93	10	97	97	62 to 97	6085 to 6050	--
JRS-10	JRS-10	Basalt-Sedimentary	387555.18	821083.12	--	6140.78	20 & 16	220	220	60 to 210	6081 to 5931	Nov-65
JRS-11	JRS-11	--	388023.55	827895.88	--	6236.78	--	--	--	-- --	-- --	--
Arr-Maz	Arr-Maz	--	382490.05	818997.16	--	6074.92	--	--	--	-- --	-- --	--
Offsite Domestic Wells												
Torgesen	Torgesen	Basalt	---	--	--		6	225	245	185 to 225	-- --	Dec-70
Lowry	Lowry	--	384536.64	817852.70	--	6102.08	--	--	--	-- --	-- --	--

-- = indicates no data are available
ft-msl = feet mean sea level; ft-bgs = feet below ground surface; ft = feet; diam = diameter;
PVC = polyvinyl chloride; WDC = WDC Exploration & Wells
a/ Groundwater monitoring wells were surveyed by A. A. Hudson & Associates in December 2012 and March 2013. Top of casing elevation refers to the elevation of the well's PVC casing.
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 and are no longer sampled.
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

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

		December 10, 2012			February 11, 2013			
Well ID	**TOC Elevation (feet amsl)**	**Depth to Water (feet btoc)**	**Groundwater Elevation (feet amsl)**	**Vertical Hydraulic Gradient (b)**	**Depth to Water (feet btoc)**	**Groundwater Elevation (feet amsl)**	**Vertical Hydraulic Gradient (b)**	**Change in Elevation (feet)**
A-27-090	6153.36	34.68	6118.68	-0.03	34.50	6118.86	-0.03	0.18
A-27-135	6152.80	35.78	6117.02		35.22	6117.58		0.56
A-34-022	6162.28	6.96	6155.32	--	7.74	6154.54	--	-0.78
A-35-080	6159.01	42.28	6116.73	0.04	41.48	6117.53	0.04	0.80
A-35-155	6158.92	39.36	6119.56		38.51	6120.41		0.85
A-36-105	6160.48	37.88	6122.60	0.01	36.89	6123.59	0.01	0.99
A-36-145	6160.54	37.71	6122.83		36.70	6123.84		1.01
MW-A-110	6159.21	44.71	6114.50	--	42.44	6116.77	--	2.27
MW-B-120	6167.75	50.08	6117.67	--	48.14	6119.61	--	1.94

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

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

		Groundwater Elevation (ft amsl)													
Well ID	**TOC Elevation (feet 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**
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
A-02-167	6161.00														
A-03-108	6152.88	6053.88	6042.97		6054.70								6060.40	6062.80	6056.00
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
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
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
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
A-08-127	6151.89	6034.67	6033.77		6039.21	6022.65							6037.00	6035.00	6041.60
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
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
A-11-140	6151.99														6025.30
A-12-110	6129.81														6041.30
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
MW05-2-100	6164.11												6144.30	6147.00	6145.60
MW05-3-240	6154.98												6104.00	6104.50	6092.70
MW05-4-260	6173.76												6002.00	6003.00	6005.00
MW05-5-240	6181.07												5999.80	6002.20	6002.80
MW-A-110	6159.21											6087.70	6103.80	6101.80	6103.30
MW-B-120	6167.75											6089.40	6103.20	6101.70	6102.10

Table 3

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

		Groundwater Elevation (ft amsl)														
Well ID	**TOC Elevation (feet amsl)**	**Oct-07**	**Jun-08**	**Oct-08**	**May-09**	**Oct-09**	**May-10**	**Oct-10**	**May-11**	**Oct-11**	**Nov-11**	**Dec-11**	**May-12**	**Oct-12**	**Dec-12**	**Feb-13**
A-01-065	6225.04	6187.70	6188.40	6187.00	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	6041.77	6054.40	6044.00	6065.80	6054.90	6073.36	6050.87	6069.00	6077.29			6068.64	6062.47	6079.07	
A-04-115	6153.07	6080.80	6104.60	6092.40	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	6046.00	6061.30	6054.10	6067.20	6065.50	6079.77	6060.74	6076.69	6083.54			6077.02	6070.21	6081.44	
A-06-118	6153.22	6038.20	6046.40	6041.50	6050.60	6052.40	6064.84	6049.94	6061.74	6069.01			6064.16	6055.14	6066.38	
A-07-120	6153.42	6038.50	6052.80	6046.50	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	6021.50	6026.60	6021.80	6032.90	6040.70	6053.63	6035.55	6050.63	6063.38			6062.83	6045.06	6055.72	
A-09-150	6149.82	6018.30	6027.90	6022.50	6035.10	6042.40	6055.85	6036.99	6053.60	6065.73			6064.92	6047.55	6057.52	
A-10-199	6127.76	5986.30	5986.60	5984.10	5989.30	5990.30	5992.96	5991.06	5997.79	6000.37			6002.37	5994.91	5994.56	
A-11-140	6151.99	6017.00	6008.20	6004.50	6015.10	6012.40	6040.11	6018.97	6036.31	6055.73			6057.08	6028.23	6042.14	
A-12-110	6129.81	6015.00	6016.30	6010.00	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
A-27-135	6152.80														6117.02	6117.58
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
A-35-080	6159.01														6116.73	6117.53
A-35-155	6158.92														6119.56	6120.41
A-36-105	6160.48														6122.60	6123.59
A-36-145	6160.54														6122.83	6123.84
MW05-1-265	6165.86	6045.00	6046.40	6041.50	6053.20	6058.50	6062.45	6062.71	6068.83	6078.10			6076.06	6068.47	6063.77	
MW05-2-100	6164.11	6145.40	6145.10	6137.90	6148.40	6147.80	6154.47	6153.93	6156.56	6160.44			6160.11	6160.26	6159.09	
MW05-3-240	6154.98	6072.00	6096.00	6083.90	6107.10	6095.20	6118.90	6093.64	6114.89	6125.97			6106.30	6103.88	6122.97	
MW05-4-260	6173.76	5991.00	5994.10	5990.60	6001.30	5999.40	6012.62	5996.76	6011.30	6019.62			6016.34	6002.67	6015.34	
MW05-5-240	6181.07	5988.00	5993.30	5987.40	5998.80	5996.30	6013.72	5996.38	6011.96	6020.72			6017.58	6003.18	6016.65	
MW-A-110	6159.21	6099.80	6103.70	6102.10	6108.00	6112.00	6117.37	6114.39	6127.81	6127.82			6118.53	6115.87	6114.50	6116.77
MW-B-120	6167.75	6100.30	6101.30	6101.60	6106.20	6110.70	6117.43	6114.46	6127.86	6128.83			6120.35	6117.86	6117.67	6119.61

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

Table 4

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
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
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
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
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
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
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
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
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
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

°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 5

Groundwater Sampling Analytical Results for Metals and Wet Chemistry Parameters
Main Processing Area Groundwater Monitoring Program
January 23 through February 15, 2013
Nu-West CPO Facility
Soda Springs, Idaho

Sample ID: Sampling Date:	**EPA Maximum Contaminant Level (c)**	**Idaho Groundwater Standard (d)**	**A-27-090** **2/13/2013**	**A-27-135** **2/13/2013**	**A-34-022** **1/23/2013**	**A-34-022** **1/31/2013**	**DUP01312013** **1/31/2013**	**A-34-022** **2/7/2013**	**A-34-022** **2/14/2013**	**A-35-080** **2/13/2013**	**A-35-155** **2/13/2013**
Total 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	--	--	--	--	--	--	--	--	--
Dissolved Metals (mg/L)											
Aluminum	no standard	0.2	< 0.015	0.022	**1,260**	**1,860**	**1,750**	**1,660**	**1,860**	< 0.015	< 0.015
Antimony	0.006	0.006	< 0.0013	< 0.0013	< 0.0065	< 0.013	< 0.013	< 0.0065	< 0.013	0.0016 J	< 0.0013
Arsenic	0.01	0.05	**0.0203**	**0.0454**	**0.343**	**0.240**	**0.229**	**0.240**	**0.266**	**0.013**	< 0.0025
Cadmium	0.005	0.005	< 0.0005	< 0.0005	**4.10**	**3.54**	**3.30**	**3.58**	**3.97**	< 0.0005	< 0.0005
Calcium	no standard	no standard	360	360	558	455	418	487	561	457	370
Chromium	0.1	0.1	< 0.002	< 0.002	**3.22**	**3.77**	**3.52**	**3.56**	**3.80**	< 0.002	< 0.002
Iron	no standard	0.3	< 0.029	0.0574	**1,380**	**2,420**	**2,230**	**1,850**	**2,240**	< 0.029	< 0.029
Magnesium	no standard	no standard	190	181	947	1,450	1,360	1,230	1,430	290	161
Potassium	no standard	no standard	45.2	33.6	405	506	469	625	533	49.4	9.21 J
Selenium	0.05	0.05	0.044	0.0434	< 0.010	< 0.020	< 0.020	< 0.010	< 0.020	0.0036 J	0.0033 J
Sodium	no standard	no standard	291	386	765	855	794	1,120	941	212	77.3

Table 5

Groundwater Sampling Analytical Results for Metals and Wet Chemistry Parameters
Main Processing Area Groundwater Monitoring Program
January 23 through February 15, 2013
Nu-West CPO Facility
Soda Springs, Idaho

Sample ID: Sampling Date:	**EPA Maximum Contaminant Level (c)**	**Idaho Groundwater Standard (d)**	**A-27-090** **2/13/2013**	**A-27-135** **2/13/2013**	**A-34-022** **1/23/2013**	**A-34-022** **1/31/2013**	**DUP01312013** **1/31/2013**	**A-34-022** **2/7/2013**	**A-34-022** **2/14/2013**	**A-35-080** **2/13/2013**	**A-35-155** **2/13/2013**
Wet Chemistry (mg/L, unless otherwise noted)											
Alkalinity											
Alkalinity, Bicarbonate as $CaCO_3$	no standard	no standard	657	962	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	627	376
Bicarbonate (as HCO_3^-) (e)	no standard	no standard	802	1,174	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	765	459
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	658	963	< 0.60	< 0.60	< 0.60	< 0.60	< 0.60	628	376
Anions											
Chloride	no standard	250	30.1 J	52 J	< 160	< 160	< 160	< 160	< 80	144	31.3
Fluoride	4	4	< 1.5	**19.6**	**2,410**	**2,180**	**2,350**	**2,310**	**2,230**	2.7 J	< 0.6
Nitrate as N	10	10	**66.8**	**19.3**	< 10	< 10	< 10	< 10	< 5	**58.1**	1.8
Nitrate (as NO_3^-) (e)	no standard	no standard	295.9	85.5	--	--	--	--	--	257.4	8.0
Sulfate	no standard	250	**1,580**	**1,510**	**18,000**	**20,900**	**17,400**	**18,500**	**14,800**	**2,080**	**1,230**
General Chemistry											
pH (standard units)	no standard	6.5 - 8.5	**6.45**	6.65	**2.22**	**2.19**	**2.11**	**2.31**	**2.28**	6.50	7.04
Specific Conductivity (µmhos/cm)	no standard	no standard	4,060	4,220	19,600	20,900	20,100	19,000	18,400	4,530	2,320
Total Dissolved Solids	no standard	500	**2,920**	**3,070**	**27,100**	**38,800**	**35,400**	**32,200**	**25,300**	**3,440**	**2,240**
Phosphorus Species											
Total Phosphorus	no standard	no standard	191	121	2,260	1,430	1,370	2,460	2,850	31.7	2.1
Orthophosphate (PO_4^{3-})	no standard	no standard	48.1	43.5	2,210	1,830	1,680	1,630	1,140	257	3.6
Charge Balance											
Total Cations (meq/l)	no standard	no standard	47.41	50.51	339.19	485.92	454.01	441.32	487.55	57.15	35.31
Total Anions (meq/l)	no standard	no standard	53.17	55.93	571.44	607.70	539.04	558.26	461.54	72.32	34.25
Charge Balance Error	no standard	no standard	-5.73%	-5.09%	-25.50%	-11.14%	-8.56%	-11.70%	2.74%	-11.71%	1.52%

Table 5

Groundwater Sampling Analytical Results for Metals and Wet Chemistry Parameters
Main Processing Area Groundwater Monitoring Program
January 23 through February 15, 2013
Nu-West CPO Facility
Soda Springs, Idaho

Sample ID: Sampling Date:	**EPA Maximum Contaminant Level (c)**	**Idaho Groundwater Standard**	**DUP02132013** **2/13/2013**	**A-36-105** **2/14/2013**	**A-36-145** **2/14/2013**	**MW-A-110** **2/15/2013**	**MW-B-120** **2/15/2013**	**NW-9** **2/15/2013**	**EB 02142013** **2/14/2013**
Total Metals (mg/L)									
Aluminum	no standard	0.2	--	--	--	--	--	--	< 0.015
Antimony	0.006	0.006	--	--	--	--	--	--	< 0.0013
Arsenic	0.01	0.05	--	--	--	--	--	--	< 0.0025
Cadmium	0.005	0.005	--	--	--	--	--	--	< 0.00050
Calcium	no standard	no standard	--	--	--	--	--	--	77.3 J
Chromium	0.1	0.1	--	--	--	--	--	--	< 0.0020
Iron	no standard	0.3	--	--	--	--	--	--	< 0.029
Magnesium	no standard	no standard	--	--	--	--	--	--	< 0.074
Potassium	no standard	no standard	--	--	--	--	--	--	< 0.2
Selenium	0.05	0.05	--	--	--	--	--	--	< 0.002
Sodium	no standard	no standard	--	--	--	--	--	--	< 0.5
Dissolved Metals (mg/L)									
Aluminum	no standard	0.2	< 0.015	**0.8**	< 0.015	**5.41**	**0.524**	**2.19**	--
Antimony	0.006	0.006	< 0.0013	< 0.0013	0.0057 J	0.0023 J	< 0.0013	< 0.0013	--
Arsenic	0.01	0.05	< 0.0025	< 0.0025	< 0.0025	0.0066 J	< 0.0025	< 0.0025	--
Cadmium	0.005	0.005	< 0.0005	**0.0131**	< 0.001	**0.0264**	0.0026 J	0.0047 J	--
Calcium	no standard	no standard	380	425	662	351	142	226	--
Chromium	0.1	0.1	< 0.002	0.0062 J	< 0.004	< 0.002	< 0.002	< 0.002	--
Iron	no standard	0.3	< 0.029	**2.96**	< 0.029	< 0.029	< 0.029	< 0.029	--
Magnesium	no standard	no standard	164	458	370	252	51.8	87.9	--
Potassium	no standard	no standard	9.32 J	40.9	10.6	24.9	4.54 J	7.32 J	--
Selenium	0.05	0.05	< 0.0034	0.0435	< 0.004	0.0062 J	0.0239	0.0117	--
Sodium	no standard	no standard	79.4	207	113	166	33.3	63.4	--

Table 5

Groundwater Sampling Analytical Results for Metals and Wet Chemistry Parameters
Main Processing Area Groundwater Monitoring Program
January 23 through February 15, 2013
Nu-West CPO Facility
Soda Springs, Idaho

Sample ID: Sampling Date:	**EPA Maximum Contaminant Level (c)**	**Idaho Groundwater Standard**	**DUP02132013** **2/13/2013**	**A-36-105** **2/14/2013**	**A-36-145** **2/14/2013**	**MW-A-110** **2/15/2013**	**MW-B-120** **2/15/2013**	**NW-9** **2/15/2013**	**EB 02142013** **2/14/2013**
Wet Chemistry (mg/L, unless otherwise noted)									
Alkalinity									
Alkalinity, Bicarbonate as $CaCO_3$	no standard	no standard	345	156	550	63.2	229	257	< 5.0
Bicarbonate (as HCO_3^-) (g)	no standard	no standard	421	190	671	77	279	314	< 5.0
Alkalinity, Carbonate (as $CaCO_3$)	no standard	no standard	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Alkalinity (as $CaCO_3$)	no standard	no standard	345	156	550	63.2	229	257	< 0.60
Anions									
Chloride (Cl^-)	no standard	250	30.9	70.9	64.5	**300**	26.4	73	< 80
Fluoride (F^-)	4	4	1 J	3.3 J	< 1.5	**13.6**	**16.3**	**12.1**	< 0.060
Nitrate as N	10	10	1.8	2.1 J	< 1.3	**238**	3.2	**22.2**	< 0.050
Nitrate (as NO_3^-) (g)	no standard	no standard	8.0	9.3	--	1,054	14.2	98.3	--
Sulfate (SO_4^{2-})	no standard	250	**1,250**	**3,700**	**2,640**	**1,200**	**270**	**565**	< 0.60
General Chemistry									
pH (standard units)	no standard	6.5 - 8.5	7.03	**6.01**	6.83	**5.56**	6.91	6.78	5.66
Specific Conductivity	no standard	no standard	2,320	4,780	3,970	4,100	1,010	1,600	1.6
Total Dissolved Solids	no standard	500	**2,270**	**4,970**	**4,630**	**4,180**	**821**	**1,410**	13 J
Phosphorus Species									
Phosphorus	no standard	no standard	1.9	0.85	0.057 J	16.7	2.5	2.5	0.041 J
Orthophosphate (PO_4^{3-})	no standard	no standard	3.7	0.19 J	0.097 J	10.1	1.4	2 J	< 0.020
Charge Balance									
Total Cations (meq/l)	no standard	no standard	36.15	69.14	68.67	46.71	12.97	21.70	--
Total Anions (meq/l)	no standard	no standard	34.09	82.48	67.79	52.75	12.08	21.25	--
Charge Balance Error	no standard	no standard	2.93%	-8.80%	0.65%	-6.07%	3.57%	1.05%	--

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 6

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

		Dissolved Metals (mg/l)																							
Well ID:	**Sample Date**	**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	-		0.0042	J	**0.0189**		0.0769	J	< 0.00050		< 0.00050		405		< 0.0020		-		-		-	
	2/13/2013	<0.015		<0.0013		**0.0203**		-		-		<0.0005		360		<0.002		-		-		<0.029	
A-27-135	12/18/2012	-		0.0052	J	**0.0464**		0.0777	J	< 0.00050		0.0011	J	407		< 0.0020		-		-		-	
	2/13/2013	0.022	J	<0.0013		**0.0454**		-		-		<0.0005		360		<0.002		-		-		0.0574	J
A-34-022	11/14/2012	-		-		**0.368**		0.239		-		**5.535**		-		**9.24**		-		-		-	
	12/6/2012			**0.035**		**0.422**		0.128		**0.085**		**5.997**		623		**4.871**							
	12/20/2012	-		**0.0451**	J	**0.275**		0.0562	J	**0.0721**		**4.14**		486		**4.55**		-		-		-	
	1/23/2013	**1,260**		**0.0065**	U	**0.343**		-		-		**4.1**		558		**3.22**		-		-		**1,380**	
	1/31/2013	**1,860**		<0.013		**0.24**		-		-		**3.54**		455		**3.77**		-		-		**2,420**	
	2/7/2013	**1,660**		<0.0065		**0.24**		-		-		**3.58**		487		**3.56**		-		-		**1,850**	
	2/14/2013	**1,860**		<0.013		**0.266**		-		-		**3.97**		561		**3.8**		-		-		**2,240**	
A-35-080	12/19/2012	-		0.0049	J	**0.0101**		0.096	J	< 0.00050		0.0007	J	512		< 0.0020		-		-		-	
	2/13/2013	<0.015		0.0016	J	**0.013**		-		-		<0.0005		457		<0.002		-		-		<0.029	
A-35-155	12/17/2012	-		0.0027	J	< 0.0025		0.0472	J	< 0.0005		< 0.0005		385		< 0.002		-		-		-	
	2/13/2013	<0.015		<0.0013		<0.0025		-		-		<0.0005		370		<0.002		-		-		<0.029	
A-36-105	12/19/2012	-		**0.0106**		< 0.0025		0.0276	J	< 0.00050		**0.0208**		488		0.0162		-		-		-	
	2/14/2013	**0.8**		<0.0013		<0.0025		-		-		**0.0131**		425		0.0062	J	-		-		**2.96**	
A-36-145	12/19/2012	-		0.0041	J	< 0.0025		0.0354	J	< 0.00050		< 0.0010		634		< 0.0040		-		-		-	
	2/14/2013	<0.015		0.0057	J	<0.0025		-		-		<0.001		662		<0.004		-		-		<0.029	
MW-A-110	10/7/2010	**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	**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	**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	**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	**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	**5.41**		0.0023	J	0.0066	J	-		-		**0.0264**		351		<0.002		-		-		<0.029	
MW-B-120	10/7/2010	**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	**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	**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	**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	**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	**0.524**		<0.0013		<0.0025		-		-		0.0026	J	142		<0.002		-		-		<0.029	

Table 6

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

		Dissolved Metals (mg/l)																			
Well ID:	**Sample Date**	**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	
Nu-West Production Wells																						
NW-09	10/7/2010	**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	**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	**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	**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	**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	**2.19**		<0.0013		<0.0025		-		-		0.0047	J	226	<0.002		-		-		<0.029	

Table 6

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

		Dissolved Metals (mg/l)																		
Well ID:	**Sample Date**	**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	< 0.0011		221	-	-		0.055	46.3		0.0446		-		290	0.0012		0.0093	J	-
	2/13/2013	-		190	-	-		-	45.2		0.044		-		291	-		-		-
A-27-135	12/18/2012	0.0013	J	216	-	-		0.0543	34.3		0.0377		-		439	0.00074		0.0179	J	-
	2/13/2013	-		181	-	-		-	33.6		0.0434		-		386	-		-		-
A-34-022	11/14/2012	< 0.050		-	-	< 0.050		-	-		< 0.050		< 0.050		-	-		-		-
	12/6/2012	< 0.010		1,662				8.411	684.6		0.023				1,183	**0.02**		19.9		
	12/20/2012	< 0.44		1,480	-	-		7.12	577		< 0.020		-		934	**0.0261**		14.1		-
	1/23/2013	-		947	-	-		-	405		0.01	U	-		765	-		-		-
	1/31/2013	-		1,450	-	-		-	506		<0.02		-		855	-		-		-
	2/7/2013	-		1,230	-	-		-	625		<0.01		-		1,120	-		-		-
	2/14/2013	-		1,430	-	-		-	533		<0.02		-		941	-		-		-
A-35-080	12/19/2012	< 0.0011		335	-	-		0.0385	J	53.4		< 0.0020		-	239	< 0.0019		0.0102	J	-
	2/13/2013	-		290	-	-		-		49.4		0.0036	J	-	212	-		-		-
A-35-155	12/17/2012	< 0.0011		167	-	-		0.0037	J	8.96	J	0.0021	J	-	74.5	< 0.0019		0.003	J	-
	2/13/2013	-		161	-	-		-		9.21	J	0.0033	J	-	77.3	-		-		-
A-36-105	12/19/2012	0.0071		538	-	-		0.172		53.6		0.0074	J	-	226	< 0.0019		< 0.10		-
	2/14/2013	-		458	-	-		-		40.9		0.0435		-	207	-		-		-
A-36-145	12/19/2012	0.0057	J	415	-	-		0.0055	J	12.1		0.0045	J	-	106	< 0.0019		< 0.0010		-
	2/14/2013	-		370	-	-		-		10.6		<0.004		-	113	-		-		-
MW-A-110	10/7/2010	< 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	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	< 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	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	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	-		252	-	-		-		24.9		0.0062	J	-		166	-		-		-
MW-B-120	10/7/2010	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	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	< 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	< 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	< 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	-		51.8	-	-		-		4.54	J	0.0239		-		33.3	-		-		-

Table 6

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

		Dissolved Metals (mg/l)															
Well ID:	**Sample Date**	**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
Nu-West Production Wells																		
NW-09	10/7/2010	< 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	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	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	< 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	< 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	-		87.9	-	-	-	7.32	J	0.0117		-	63.4	-		-		-

Table 6

Historical Groundwater Sampling Analytical Results for Dissolved 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**	-
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**	-
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**	-
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**	-
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**	-
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**	-
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**	-
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**	-
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**	-

Table 6

Historical Groundwater Sampling Analytical Results for Dissolved 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
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**	-

Table 6

Historical Groundwater Sampling Analytical Results for Dissolved 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%
A-27-135	12/18/2012	**6.36**	4,320	**2,740**	17	33.5	54.8	34.4	48.9	52.9	58.06	59.85	-1.52%
	2/13/2013	6.65	4,220	**3,070**	-	-	-	-	43.5	121	50.51	55.93	-5.09%
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%
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%
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%
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%
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%
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%
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%

Table 6

Historical Groundwater Sampling Analytical Results for Dissolved 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
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%

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 CaCO3.

Enclosure A

Southeast ACCUTEST LABORATORIES

02/07/13

Technical Report for

WSP Environment & Energy

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

Accutest Job Number: FA1175

Sampling Date: 01/23/13

Report to:

WSP Environment & Energy
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Jackson, MO 63755
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ATTN: Tim Huff

Total number of pages in report: **79**

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: FA1175

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

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA1175-1	01/23/13	13:15	TP	01/25/13	AQ	Ground Water	A-34-022
FA1175-1F	01/23/13	13:15	TP	01/25/13	AQ	Groundwater Filtered	A-34-022

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: WSP Environment & Energy **Job:** FA1175

Site: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda **Report Date:** 2/7/2013 2:15:51 PM

1 Sample was collected on 01/23/2013 and was received at Accutest SE on 01/25/2013 properly preserved, at 2.8 Deg. C and intact. The Sample received an Accutest job number of FA1175. 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:** MP24527

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) FA1193-1DUP, FA1193-1MS, FA1193-1MSD, FA1193-1PS, FA1193-1SDL were used as the QC samples for metals.

RPD(s) for Duplicate for Chromium are outside control limits for sample MP24527-D1. RPD acceptable due to low duplicate and sample concentrations.

RPD(s) for Serial Dilution for Chromium are outside control limits for sample MP24527-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

FA1175-1F for Calcium: Elevated reporting limit(s) due to matrix interference.

FA1175-1F for Selenium: Elevated reporting limit(s) due to matrix interference.

FA1175-1F for Chromium: Elevated reporting limit(s) due to matrix interference.

FA1175-1F for Arsenic: Elevated reporting limit(s) due to matrix interference.

FA1175-1F for Cadmium: Elevated reporting limit(s) due to matrix interference.

FA1175-1F for Antimony: Elevated reporting limit(s) due to matrix interference.

Wet Chemistry By Method EPA 120.1

Matrix: AQ **Batch ID:** GN53851

All method blanks for this batch meet method specific criteria.

Sample(s) FA1175-1DUP was used as the QC samples for Specific Conductivity.

The following sample was run outside of holding time for method EPA 120.1: FA1175-1. Sample received outside the holding time.

Wet Chemistry By Method EPA 300/SW846 9056A

Matrix: AQ **Batch ID:** GP20863

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) FA1157-2MS, FA1157-2MSD were used as the QC samples for Chloride, Fluoride, Nitrogen, Nitrate, Sulfate.

FA1175-1 for Nitrogen, Nitrate: Sample received near end of hold time, analyzed as soon as possible. Dilution required due to matrix interference.

FA1175-1 for Chloride: Dilution required due to matrix interference.

Wet Chemistry By Method EPA 365.3

Matrix: AQ **Batch ID:** GP20861

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA1147-10DUP, FA1147-10MS were used as the QC samples for Phosphate, Ortho.

The following samples were prepped outside of holding time for method EPA 365.3: FA1175-1F.

FA1175-1F for Phosphate, Ortho: Sample received near the end of hold. Results considered minimum values.

Matrix: AQ **Batch ID:** GP20865

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA1156-1DUP, FA1156-1MSD were used as the QC samples for Phosphorus, Total.

GP20865-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:** GN53865

Sample(s) FA1175-1DUP was used as the QC sample for pH.

FA1175-1 for pH: Field analysis required. Received out of hold time and analyzed by request.

Wet Chemistry By Method SM19 2320B

Matrix: AQ **Batch ID:** GN53938

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA1064-1DUP, FA1064-1MS were used as the QC samples for Alkalinity, Total as CaCO3.

Wet Chemistry By Method SM19 2540C

Matrix: AQ **Batch ID:** GN53890

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA1168-5DUP was used as the QC sample for Solids, Total Dissolved.

FA1175-1 for Solids, Total Dissolved: Confirmed by reanalysis in GN53932.

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: February 7, 2013

Kim Benham, Client Services (signature on file)

Summary of Hits

Job Number: FA1175
Account: WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID
Collected: 01/23/13

3

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA1175-1	**A-34-022**					
Fluoride		2410	200	60	mg/l	EPA 300/SW846 9056A
Phosphorus, Total		2260	1000	280	mg/l	EPA 365.3
Solids, Total Dissolved [a]		27100	100	10	mg/l	SM19 2540C
Specific Conductivity [b]		19600	1.0	1.0	umhos/cm	EPA 120.1
Sulfate		18000	400	120	mg/l	EPA 300/SW846 9056A
pH [c]		2.22			su	SM 4500H B/SW 9040C
FA1175-1F	**A-34-022**					
Aluminum		1260	1.0	0.075	mg/l	SW846 6010C
Arsenic [d]		0.343	0.050	0.013	mg/l	SW846 6010C
Cadmium [d]		4.10	0.025	0.0025	mg/l	SW846 6010C
Calcium [d]		558	5.0	0.25	mg/l	SW846 6010C
Chromium [d]		3.22	0.050	0.010	mg/l	SW846 6010C
Iron		1380	1.5	0.15	mg/l	SW846 6010C
Magnesium		947	25	0.37	mg/l	SW846 6010C
Potassium		405	100	2.0	mg/l	SW846 6010C
Sodium		765	100	5.0	mg/l	SW846 6010C
Phosphate, Ortho [e]		2210	500	95	mg/l	EPA 365.3

(a) Confirmed by reanalysis in GN53932.
(b) Sample received outside the holding time.
(c) Field analysis required. Received out of hold time and analyzed by request.
(d) Elevated reporting limit(s) due to matrix interference.
(e) Sample received near the end of hold. Results considered minimum values.

Southeast ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	A-34-022		
Lab Sample ID:	FA1175-1	**Date Sampled:**	01/23/13
Matrix:	AQ - Ground Water	**Date Received:**	01/25/13
		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	5.0 U	5.0	5.0	mg/l	1	02/07/13	AC	SM18 4500CO2D
Alkalinity, Carbonate	5.0 U	5.0	5.0	mg/l	1	02/07/13	AC	SM18 4500CO2D
Alkalinity, Total as CaCO3	0.60 U	5.0	0.60	mg/l	1	01/31/13 13:00	AC	SM19 2320B
Chloride [a]	160 U	400	160	mg/l	200	01/25/13 14:40	AA	EPA 300/SW846 9056A
Fluoride	2410	200	60	mg/l	1000	01/29/13 20:55	AA	EPA 300/SW846 9056A
Nitrogen, Nitrate [b]	10 U	20	10	mg/l	200	01/25/13 14:40	AA	EPA 300/SW846 9056A
Phosphorus, Total	2260	1000	280	mg/l	10000	01/28/13 09:35	LE	EPA 365.3
Solids, Total Dissolved [c]	27100	100	10	mg/l	1	01/29/13	MG	SM19 2540C
Specific Conductivity [d]	19600	1.0	1.0	umhos/cm	1	01/25/13 14:10	LE	EPA 120.1
Sulfate	18000	400	120	mg/l	200	01/25/13 14:40	AA	EPA 300/SW846 9056A
pH [e]	2.22			su	1	01/25/13 14:30	LE	SM 4500H B/SW 9040C

(a) Dilution required due to matrix interference.
(b) Sample received near end of hold time, analyzed as soon as possible. Dilution required due to matrix interference.
(c) Confirmed by reanalysis in GN53932.
(d) Sample received outside the holding time.
(e) 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:	FA1175-1F	**Date Sampled:**	01/23/13
Matrix:	AQ - Groundwater Filtered	**Date Received:**	01/25/13
		Percent Solids:	n/a
Project:	Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	1260	1.0	0.075	mg/l	5	01/28/13	01/29/13	LM	SW846 6010C [1]	SW846 3010A [3]
Antimony [a]	0.0065 U	0.030	0.0065	mg/l	5	01/28/13	01/29/13	LM	SW846 6010C [1]	SW846 3010A [3]
Arsenic [a]	0.343	0.050	0.013	mg/l	5	01/28/13	01/29/13	LM	SW846 6010C [1]	SW846 3010A [3]
Cadmium [a]	4.10	0.025	0.0025	mg/l	5	01/28/13	01/29/13	LM	SW846 6010C [1]	SW846 3010A [3]
Calcium [a]	558	5.0	0.25	mg/l	5	01/28/13	01/29/13	LM	SW846 6010C [1]	SW846 3010A [3]
Chromium [a]	3.22	0.050	0.010	mg/l	5	01/28/13	01/29/13	LM	SW846 6010C [1]	SW846 3010A [3]
Iron	1380	1.5	0.15	mg/l	5	01/28/13	01/29/13	LM	SW846 6010C [1]	SW846 3010A [3]
Magnesium	947	25	0.37	mg/l	5	01/28/13	01/29/13	LM	SW846 6010C [1]	SW846 3010A [3]
Potassium	405	100	2.0	mg/l	10	01/28/13	01/30/13	LM	SW846 6010C [2]	SW846 3010A [3]
Selenium [a]	0.010 U	0.050	0.010	mg/l	5	01/28/13	01/29/13	LM	SW846 6010C [1]	SW846 3010A [3]
Sodium	765	100	5.0	mg/l	10	01/28/13	01/29/13	LM	SW846 6010C [1]	SW846 3010A [3]

(1) Instrument QC Batch: MA10496
(2) Instrument QC Batch: MA10501
(3) Prep QC Batch: MP24527

(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:	FA1175-1F	**Date Sampled:**	01/23/13
Matrix:	AQ - Groundwater Filtered	**Date Received:**	01/25/13
		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]	2210	500	95	mg/l	5000	01/25/13 14:40	MG	EPA 365.3

(a) Sample received near the end of hold. Results considered minimum values.

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 # FA1175

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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@WSP.COM
Phone#: 573-217-6759
Sampler(s) Name(s) (Printed): T PATTE

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	OTHER	NONE	HCl	NaOH	HNO3	H2SO4	NaOH+ZnAc	DI WATER	NEOH	SEE ATTACHED	LAB USE ONLY
1	A-34-022	012313	1315	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:
	012413 1630	2 FX	3 FX	1/25/13 9:30	4 ALE
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) Celsius: 2.8

FA1175: Chain of Custody
Page 1 of 4

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: FA1175 CLIENT: WSP ENV. PROJECT: AGRIUM

DATE/TIME RECEIVED: 01/25/13 9:30 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 1

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

AIRBILL NUMBERS: 8013 5708 1293

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: 2.0
- [ ] 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 1/25/13 REVIEWER SIGNATURE/DATE 01/25/13

NF 12/10

receipt confirmation 122910.xls

5.1

5

FA1175: Chain of Custody

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Metals and O-Phos - Field Filtered

Note: A-34-022 High Phosphate

Table 5-4

Groundwater Sampling Analytical Methods
Nu-West CPO Facility
Soda Springs, Idaho

Analytes	Test Method (b)	Method Detection Limit (mg/l)	Laboratory Reporting Limit (mg/l)	EPA Maximum Contaminant Level (c) (mg/l)	Idaho Groundwater Standard (d) (mg/l)	Sample Criteria (e) Container	Quantity (ml)	Preservative	Holding Time
Dissolved Metals (mg/l)									
Aluminum	EPA 200.8 or SW-846 6010C	0.015	0.2	NS	NS	P	500	4°C; HNO_3 <2 S.U.	6 months
Antimony	EPA 200.8 or SW-846 6010C	0.0045	0.006	0.006	0.006	P	500	4°C; HNO_3 <2 S.U.	6 months
Arsenic	EPA 200.8 or SW-846 6010C	0.0054	0.01	0.01	0.01	P	500	4°C; HNO_3 <2 S.U.	6 months
Cadmium	EPA 200.8 or SW-846 6010C	0.001	0.005	0.005	0.005	P	500	4°C; HNO_3 <2 S.U.	6 months
Calcium	EPA 200.8 or SW-846 6010C	0.1	1	NS	NS	P	500	4°C; HNO_3 <2 S.U.	6 months
Chromium	EPA 200.8 or SW-846 6010C	0.002	0.01	0.1	0.1	P	500	4°C; HNO_3 <2 S.U.	6 months
Iron	EPA 200.8 or SW-846 6010C	0.029	0.3	NS	NS	P	500	4°C; HNO_3 <2 S.U.	6 months
Magnesium	EPA 200.8 or SW-846 6010C	0.1	5	NS	NS	P	500	4°C; HNO_3 <2 S.U.	6 months
Potassium	EPA 200.8 or SW-846 6010C	0.1	10	NS	NS	P	500	4°C; HNO_3 <2 S.U.	6 months
Sodium	EPA 200.8 or SW-846 6010C	1	20	NS	NS	P	500	4°C; HNO_3 <2 S.U.	6 months
General Chemistry (mg/l)									
Chloride	EPA 300	1	2	NS	250	P	250	4°C	28 days
Fluoride	EPA 300	0.1	0.2	4	4	P	500	4°C	28 days
Nitrate as N	EPA 300	0.05	0.1	10	10	P, G	1,000	4°C; H_2SO4 <2 S.U.	28 days
Orthophosphate	EPA 365.1	0.009	0.1	NS	NS	P (f)	500	4°C	48 hours
Total Phosphorous	EPA 365.3	0.009	0.1	NS	NS	P	100	4°C; H_2SO4 <2 S.U.	28 days
Sulfate	EPA 300	1	2	NS	NS	P	500	4°C	28 days
TDS	SM2540C	10	100	NS	500	P	100	4°C	7 days
pH (S.U.)	SM4500 H+B	0.01	0.01	NS	6.5 to 8.5	P	100	4°C	immediate
Alkalinity (bicarbonate and carbonate)	SM18 4500CO2D	5	5	NS	NS	P	1000	4°C	14 days
Specific Conductance	EPA 120.1	NA	1	NS	NS	P	1000	4°C	28 days

a/ mg/l = milligrams per liter; NS = not applicable or standard not developed; ml = milliliter; P = plastic; G = glass; oC = degrees Celsius; HNO3 = nitric acid; H2SO4 = sulfuric acid; NaOH+Zn acetate = sodium hydroxide plus zinc acetate; HCl = hydrochloric acid; S.U. = standard units; TDS = total dissolved solids; µg/l = micrograms per liter; pCi/l = picoCuries per liter; TDS will be analyzed for groundwater only.

b/ SW-846 source: EPA. Test Methods for Evaluating Solid Waste, Physical/Chemical Methods (1986, as updated and revised).
SM source: American Public Health Association. Standard Methods for Examination of Water and Wastewater (1998, as updated and revised).
EPA sources:
EPA. Methods for Chemical Analysis of Water and Waste. EPA 600/4-70-020 (1983, as updated and revised).
EPA. EPA Prescribed Procedures for Measurement of Radioactivity in Drinking Water. EPA 600 4-80-032 (1980, as updated and revised).

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/ Accutest Laboratories.

f/ Filter within 15 minutes of sampling.

Job Change Order: FA1175_2/6/2013

Requested Date:	2/6/2013	**Received Date:**	1/25/2013
Account Name:	WSP Environment & Energy	**Due Date:**	2/8/2013
Project Description:	Nu-West Conda Phosphate Operations, 3010	**Deliverable:**	REDT1
CSR:	AC	**TAT (Days):**	2

Sample #:
FA1175-1F

Change: Please add selenium to the metals list.

A-34-022

Above Changes Tim Huff **Date:** 2/6/2013

To Client: This Change Order is confirmation of the revisions, previously discussed with the Accutest Client Service Representative.

Page 1 of 1

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: FA1175
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA012813M1.ICP Date Analyzed: 01/28/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10491
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
09:25	MA10491-STD1	1		STDA
09:29	MA10491-STD2	1		STDB
09:33	MA10491-STD3	1		STDC
09:38	MA10491-STD4	1		STDD
09:42	MA10491-HSTD1	1		
09:48	MA10491-ICV1	1		
09:59	MA10491-ICB1	1		
10:04	MA10491-CRIA1	1		
10:16	MA10491-ICSA1	1		
10:27	MA10491-ICSAB1	1		
10:34	MA10491-CCV1	1		
10:43	MA10491-CCB1	1		
10:57	MP24524-MB1	1		
11:01	MP24524-B1	1		
11:06	FA1129-1	5		(sample used for QC only; not part of login FA1175)
11:10	MP24524-D1	5		
11:15	MP24524-SD1	25		
11:19	MP24524-PS1	5		
11:23	MP24524-S1	5		
11:28	MP24524-S2	5		
11:37	MA10491-CCV2	1		
11:41	MA10491-CCB2	1		
11:50	ZZZZZZ	5		
11:55	ZZZZZZ	5		
11:59	ZZZZZZ	5		
12:04	ZZZZZZ	5		
12:09	ZZZZZZ	5		
12:13	ZZZZZZ	5		
12:18	ZZZZZZ	1		
12:23	ZZZZZZ	1		
12:27	ZZZZZZ	1		
12:32	MA10491-CCV3	1		
12:36	MA10491-CCB3	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA1175
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA012813M1.ICP Date Analyzed: 01/28/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10491
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
12:40	ZZZZZZ	1		
12:45	ZZZZZZ	1		
12:49	ZZZZZZ	1		
12:54	ZZZZZZ	1		
12:58	ZZZZZZ	1		
13:03	ZZZZZZ	1		
13:07	ZZZZZZ	1		
13:11	ZZZZZZ	1		
13:16	MP24526-MB1	1		
13:20	MP24526-B1	1		
13:25	MA10491-CCV4	1		
13:29	MA10491-CCB4	1		
14:00	MA10491-CCV5	1		
14:11	MA10491-CCB5	1		
14:15	FA1088-1	1		(sample used for QC only; not part of login FA1175)
14:19	MP24526-D1	1		
14:24	MP24526-SD1	5		
14:29	MP24526-S1	1		
14:33	MP24526-S2	1		
14:37	ZZZZZZ	1		
14:42	ZZZZZZ	1		
14:46	MP24526-MB2	1		
14:51	MP24526-B2	1		
14:55	MP24527-MB1	1		
15:00	MA10491-CCV6	1		
15:04	MA10491-CCB6	1		
15:08	MP24527-B1	1		
15:13	FA1193-1	1		(sample used for QC only; not part of login FA1175)
15:17	MP24527-D1	1		
15:22	MP24527-SD1	5		
15:26	MP24527-PS1	1		
15:31	MP24527-S1	1		
15:35	MP24527-S2	1		

----------> Last reportable sample/prep for job FA1175

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA1175
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA012813M1.ICP Date Analyzed: 01/28/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10491
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
15:39	ZZZZZZ	1		
15:44	ZZZZZZ	1		
15:48	ZZZZZZ	1		
15:53	MA10491-CCV7	1		
15:57	MA10491-CCB7	1		
16:02	ZZZZZZ	1		
16:11	ZZZZZZ	1		
16:15	ZZZZZZ	1		
16:48	MA10491-CCV8	1		
16:52	MA10491-CCB8	1		
17:06	MA10491-CRIA2	1		
17:11	MA10491-ICSA2	1		
17:15	MA10491-ICSAB2	1		
17:20	MA10491-CCV9	1		
17:24	MA10491-CCB9	1		

----------> Last reportable CCB for job FA1175
Refer to raw data for calibration curve and standards.

INTERNAL STANDARD SUMMARY

Login Number: FA1175
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA012813M1.ICP Date Analyzed: 01/28/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10491
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Na

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
09:25	MA10491-STD1	1839	17173	6430	1144
09:29	MA10491-STD2	1814	16703	6393	1071
09:33	MA10491-STD3	1758	16181	6312	978
09:38	MA10491-STD4	1687	15717	6250	901
09:42	MA10491-HSTD1	1706	15865	6282	911
09:48	MA10491-ICV1	1740	16091	6289	965
09:59	MA10491-ICB1	1838 R	17096 R	6398 R	1149 R
10:04	MA10491-CRIA1	1811	16661	6346	1090
10:16	MA10491-ICSA1	1633	14485	5866	845
10:27	MA10491-ICSAB1	1616	14569	5931	828
10:34	MA10491-CCV1	1753	15970	6114	970
10:43	MA10491-CCB1	1847	17243	6402	1141
10:57	MP24524-MB1	1824	17164	6333	1136
11:01	MP24524-B1	1789	16375	6246	1022
11:06	FA1129-1	1835	16796	6521	973
11:10	MP24524-D1	1813	16923	6597	952
11:15	MP24524-SD1	1845	17095	6394	1069
11:19	MP24524-PS1	1810	16603	6417	953
11:23	MP24524-S1	1836	16845	6576	946
11:28	MP24524-S2	1804	16729	6516	946
11:37	MA10491-CCV2	1763	16169	6226	972
11:41	MA10491-CCB2	1851	17316	6433	1143
11:50	ZZZZZZ	1822	16664	6351	1014
11:55	ZZZZZZ	1894	17354	6912	856
11:59	ZZZZZZ	1990	18254	7340	793
12:04	ZZZZZZ	1594	14993	6050	851
12:09	ZZZZZZ	1797	16442	6475	907
12:13	ZZZZZZ	1583	15037	6162	837
12:18	ZZZZZZ	2038	18505	7508	809
12:23	ZZZZZZ	1880	17095	6520	1037
12:27	ZZZZZZ	1810	16623	6444	939
12:32	MA10491-CCV3	1777	16302	6340	974
12:36	MA10491-CCB3	1830	16854	6278	1133

INTERNAL STANDARD SUMMARY

Login Number: FA1175
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA012813M1.ICP Date Analyzed: 01/28/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10491
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Na

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
12:40	ZZZZZZ	1883	17254	6610	1013
12:45	ZZZZZZ	1851	17061	6434	1081
12:49	ZZZZZZ	1845	16913	6356	1082
12:54	ZZZZZZ	1843	17107	6382	1100
12:58	ZZZZZZ	1846	17153	6505	1090
13:03	ZZZZZZ	1843	17035	6391	1108
13:07	ZZZZZZ	1834	16918	6358	1090
13:11	ZZZZZZ	1811	16769	6389	1054
13:16	MP24526-MB1	1806	16930	6344	1135
13:20	MP24526-B1	1730	15958	6186	999
13:25	MA10491-CCV4	1717	15917	6230	953
13:29	MA10491-CCB4	1797	16839	6389	1124
14:00	MA10491-CCV5	1698	15693	6173	943
14:11	MA10491-CCB5	1772	16330	6152	1113
14:15	FA1088-1	1744	16318	6213	1088
14:19	MP24526-D1	1756	16605	6310	1092
14:24	MP24526-SD1	1786	16545	6261	1115
14:29	MP24526-S1	1684	15427	6062	973
14:33	MP24526-S2	1685	15647	6143	970
14:37	ZZZZZZ	1724	16419	6216	1079
14:42	ZZZZZZ	1746	16384	6224	1089
14:46	MP24526-MB2	1751	16310	6224	1106
14:51	MP24526-B2	1692	15775	6230	979
14:55	MP24527-MB1	1751	16629	6311	1101
15:00	MA10491-CCV6	1696	15553	6122	946
15:04	MA10491-CCB6	1775	16469	6248	1115
15:08	MP24527-B1	1686	15760	6180	974
15:13	FA1193-1	1712	16057	6283	1022
15:17	MP24527-D1	1693	15507	6066	1019
15:22	MP24527-SD1	1753	16114	6216	1085
15:26	MP24527-PS1	1691	15668	6249	994
15:31	MP24527-S1	1681	15618	6213	949
15:35	MP24527-S2	1686	15366	6116	957

INTERNAL STANDARD SUMMARY

Login Number: FA1175
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA012813M1.ICP Date Analyzed: 01/28/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10491
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Na

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
15:39	ZZZZZZ	1654	15220	6069	998
15:44	ZZZZZZ	1688	15559	6231	1025
15:48	ZZZZZZ	1658	15321	6146	999
15:53	MA10491-CCV7	1685	15235	6112	948
15:57	MA10491-CCB7	1761	16131	6227	1113
16:02	ZZZZZZ	1655	15324	6157	992
16:11	ZZZZZZ	1576	14359	5922	910
16:15	ZZZZZZ	1530	14155	5929	881
16:48	MA10491-CCV8	1686	15427	6191	953
16:52	MA10491-CCB8	1752	16402	6365	1118
17:06	MA10491-CRIA2	1745	15868	6177	1074
17:11	MA10491-ICSA2	1518	13656	5750	802
17:15	MA10491-ICSAB2	1502	13646	5729	793
17:20	MA10491-CCV9	1652	15256	6067	935
17:24	MA10491-CCB9	1733	16159	6188	1108

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: FA1175
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA012813M1.ICP Date Analyzed: 01/28/13 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA10491 Units: ug/l

Time:			09:59		10:43		11:41		12:36	
Sample ID:			ICB1		CCB1		CCB2		CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	15	5.0	<200	10.7	<200	14.8	<200	5.8	<200
Antimony	6.0	1.3	-0.70	<6.0	0.20	<6.0	-0.50	<6.0	0.0	<6.0
Arsenic	10	1.6	0.70	<10	0.0	<10	-0.60	<10	-0.60	<10
Barium	200	1	anr							
Beryllium	4.0	.5								
Cadmium	5.0	.5	0.10	<5.0	0.10	<5.0	0.10	<5.0	0.20	<5.0
Calcium	1000	50	-0.20	<1000	11.6	<1000	19.2	<1000	8.5	<1000
Chromium	10	1.8	0.30	<10	0.40	<10	0.20	<10	0.20	<10
Cobalt	50	.5								
Copper	25	1								
Iron	300	29	-2.1	<300	9.8	<300	17.4	<300	9.8	<300
Lead	5.0	1.1	anr							
Magnesium	5000	74	-20	<5000	-12	<5000	-10	<5000	-8.5	<5000
Manganese	15	.7	anr							
Molybdenum	50	.6								
Nickel	40	.5								
Potassium	10000	200	3.1	<10000	-22	<10000	-25	<10000	-28	<10000
Selenium	10	2	anr							
Silver	10	.5	anr							
Sodium	10000	500	0.10	<10000	-2.4	<10000	0.20	<10000	5.6	<10000
Strontium	10	.5								
Thallium	10	1.3	anr							
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: FA1175
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA012813M1.ICP Date Analyzed: 01/28/13 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA10491 Units: ug/l

Time:			13:29		14:11		15:04		15:57	
Sample ID:			CCB4		CCB5		CCB6		CCB7	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	15	10.3	<200	1.0	<200	-0.80	<200	5.3	<200
Antimony	6.0	1.3	0.70	<6.0	-0.70	<6.0	0.20	<6.0	0.20	<6.0
Arsenic	10	1.6	-0.20	<10	0.60	<10	1.7	<10	1.2	<10
Barium	200	1	anr							
Beryllium	4.0	.5								
Cadmium	5.0	.5	0.20	<5.0	-0.10	<5.0	0.0	<5.0	0.0	<5.0
Calcium	1000	50	7.7	<1000	5.9	<1000	5.4	<1000	9.1	<1000
Chromium	10	1.8	0.30	<10	-0.20	<10	-0.20	<10	-0.10	<10
Cobalt	50	.5								
Copper	25	1								
Iron	300	29	10.6	<300	6.2	<300	10.1	<300	7.7	<300
Lead	5.0	1.1	anr							
Magnesium	5000	74	-11	<5000	-5.2	<5000	2.3	<5000	6.2	<5000
Manganese	15	.7	anr							
Molybdenum	50	.6								
Nickel	40	.5								
Potassium	10000	200	-14	<10000	27.5	<10000	20.9	<10000	9.9	<10000
Selenium	10	2	anr							
Silver	10	.5	anr							
Sodium	10000	500	5.1	<10000	5.5	<10000	4.7	<10000	31.7	<10000
Strontium	10	.5								
Thallium	10	1.3	anr							
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: FA1175
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA012813M1.ICP Date Analyzed: 01/28/13 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA10491 Units: ug/l

Time:			16:52		17:24	
Sample ID:			CCB8		CCB9	
Metal	RL	IDL	raw	final	raw	final
Aluminum	200	15	7.4	<200	10.0	<200
Antimony	6.0	1.3	0.10	<6.0	0.20	<6.0
Arsenic	10	1.6	0.80	<10	0.50	<10
Barium	200	1	anr			
Beryllium	4.0	.5				
Cadmium	5.0	.5	0.0	<5.0	0.10	<5.0
Calcium	1000	50	16.7	<1000	20.1	<1000
Chromium	10	1.8	-0.30	<10	-0.10	<10
Cobalt	50	.5				
Copper	25	1				
Iron	300	29	18.6	<300	23.7	<300
Lead	5.0	1.1	anr			
Magnesium	5000	74	-6.8	<5000	17.2	<5000
Manganese	15	.7	anr			
Molybdenum	50	.6				
Nickel	40	.5				
Potassium	10000	200	62.3	<10000	49.1	<10000
Selenium	10	2	anr			
Silver	10	.5	anr			
Sodium	10000	500	24.1	<10000	19.0	<10000
Strontium	10	.5				
Thallium	10	1.3	anr			
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: FA1175
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA012813M1.ICP Date Analyzed: 01/28/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA10491 Units: ug/l

Time:		09:48			10:34			11:37	
Sample ID:	ICV	ICV1		CCV	CCV1		CCV	CCV2	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	41000	102.5	40000	40800	102.0	40000	40300	100.8
Antimony	2000	2040	102.0	2000	2010	100.5	2000	2010	100.5
Arsenic	2000	2000	100.0	2000	2010	100.5	2000	2020	101.0
Barium	anr								
Beryllium									
Cadmium	2000	2060	103.0	2000	2060	103.0	2000	2070	103.5
Calcium	40000	43300	108.3	40000	42000	105.0	40000	42100	105.3
Chromium	2000	2070	103.5	2000	2090	104.5	2000	2090	104.5
Cobalt									
Copper									
Iron	40000	43100	107.8	40000	42300	105.8	40000	42000	105.0
Lead	anr								
Magnesium	40000	41800	104.5	40000	41500	103.8	40000	41200	103.0
Manganese	anr								
Molybdenum									
Nickel									
Potassium	40000	41900	104.8	40000	40500	101.3	40000	40300	100.8
Selenium	anr								
Silver	anr								
Sodium	40000	38300	95.8	40000	40500	101.3	40000	40100	100.3
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium	anr								
Zinc									

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

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA1175
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA012813M1.ICP Date Analyzed: 01/28/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA10491 Units: ug/l

Time:		12:32			13:25			14:00	
Sample ID:	CCV	CCV3		CCV	CCV4		CCV	CCV5	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	40200	100.5	40000	40700	101.8	40000	40200	100.5
Antimony	2000	2020	101.0	2000	2080	104.0	2000	2000	100.0
Arsenic	2000	2030	101.5	2000	2080	104.0	2000	2000	100.0
Barium	anr								
Beryllium									
Cadmium	2000	2080	104.0	2000	2120	106.0	2000	2030	101.5
Calcium	40000	42300	105.8	40000	41800	104.5	40000	40400	101.0
Chromium	2000	2100	105.0	2000	2130	106.5	2000	2040	102.0
Cobalt									
Copper									
Iron	40000	42000	105.0	40000	42400	106.0	40000	41000	102.5
Lead	anr								
Magnesium	40000	41100	102.8	40000	41200	103.0	40000	40200	100.5
Manganese	anr								
Molybdenum									
Nickel									
Potassium	40000	40200	100.5	40000	41300	103.3	40000	40000	100.0
Selenium	anr								
Silver	anr								
Sodium	40000	40000	100.0	40000	41400	103.5	40000	40000	100.0
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium	anr								
Zinc									

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

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA1175
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA012813M1.ICP Date Analyzed: 01/28/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA10491 Units: ug/l

Time:		15:00			15:53			16:48	
Sample ID:	CCV	CCV6		CCV	CCV7		CCV	CCV8	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	40100	100.3	40000	39400	98.5	40000	39300	98.3
Antimony	2000	2010	100.5	2000	2030	101.5	2000	2050	102.5
Arsenic	2000	2020	101.0	2000	2030	101.5	2000	2050	102.5
Barium	anr								
Beryllium									
Cadmium	2000	2050	102.5	2000	2080	104.0	2000	2070	103.5
Calcium	40000	41400	103.5	40000	40900	102.3	40000	40200	100.5
Chromium	2000	2060	103.0	2000	2150	107.5	2000	2120	106.0
Cobalt									
Copper									
Iron	40000	41700	104.3	40000	41900	104.8	40000	41400	103.5
Lead	anr								
Magnesium	40000	40800	102.0	40000	40300	100.8	40000	39800	99.5
Manganese	anr								
Molybdenum									
Nickel									
Potassium	40000	39800	99.5	40000	39700	99.3	40000	40000	100.0
Selenium	anr								
Silver	anr								
Sodium	40000	39700	99.3	40000	39700	99.3	40000	40100	100.3
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium	anr								
Zinc									

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

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA1175
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA012813M1.ICP Date Analyzed: 01/28/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA10491 Units: ug/l

Time:		17:20	
Sample ID:	CCV	CCV9	
Metal	True	Results	% Rec
Aluminum	40000	40400	101.0
Antimony	2000	2060	103.0
Arsenic	2000	2060	103.0
Barium	anr		
Beryllium			
Cadmium	2000	2080	104.0
Calcium	40000	40600	101.5
Chromium	2000	2100	105.0
Cobalt			
Copper			
Iron	40000	41800	104.5
Lead	anr		
Magnesium	40000	40400	101.0
Manganese	anr		
Molybdenum			
Nickel			
Potassium	40000	41000	102.5
Selenium	anr		
Silver	anr		
Sodium	40000	41100	102.8
Strontium			
Thallium	anr		
Tin			
Titanium			
Vanadium	anr		
Zinc			

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

HIGH STANDARD CHECK SUMMARY

Login Number: FA1175
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA012813M1.ICP Date Analyzed: 01/28/13 Methods: SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA10491 Units: ug/l

Time:		09:42	
Sample ID:	HSTD	HSTD1	
Metal	True	Results	% Rec
Aluminum	80000	80900	101.1
Antimony	4000	3990	99.8
Arsenic	4000	3980	99.5
Barium	anr		
Beryllium			
Cadmium	4000	3940	98.5
Calcium	80000	80900	101.1
Chromium	4000	3960	99.0
Cobalt			
Copper			
Iron	80000	79100	98.9
Lead	anr		
Magnesium	80000	81200	101.5
Manganese	anr		
Molybdenum			
Nickel			
Potassium	80000	80500	100.6
Selenium	anr		
Silver	anr		
Sodium	80000	80300	100.4
Strontium			
Thallium	anr		
Tin			
Titanium			
Vanadium	anr		
Zinc			

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

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: FA1175
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA012813M1.ICP Date Analyzed: 01/28/13 Methods: SW846 6010C
QC Limits: CRI 70-130% CRIA 70-130% Run ID: MA10491 Units: ug/l

Time:			10:04		17:06	
Sample ID:	CRI	CRIA	CRIA1		CRIA2	
Metal	True	True	Results	% Rec	Results	% Rec
Aluminum	400	200	212	106.0	214	107.0
Antimony	10	5.0	5.0	100.0	5.0	100.0
Arsenic	20	10	10.2	102.0	11.9	119.0
Barium	400	200	anr			
Beryllium	10	5.0				
Cadmium	10	5.0	5.5	110.0	5.5	110.0
Calcium	2000	1000	1070	107.0	1060	106.0
Chromium	20	10	11.4	114.0	11.3	113.0
Cobalt	100	50				
Copper	50	25				
Iron	600	300	330	110.0	336	112.0
Lead	10	5.0	anr			
Magnesium	10000	5000	5090	101.8	5110	102.2
Manganese	30	15	anr			
Molybdenum	100	50				
Nickel	80	40				
Potassium	20000	10000	10300	103.0	10400	104.0
Selenium	20	10	anr			
Silver	20	10	anr			
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	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: FA1175
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA012813M1.ICP Date Analyzed: 01/28/13 Methods: SW846 6010C
QC Limits: 80 to 120 % Recovery Run ID: MA10491 Units: ug/l

Time:			10:16		10:27		17:11		17:15	
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	518000	103.6	521000	104.2	528000	105.6
Antimony		1000	0.0		1030	103.0	-2.3		1100	110.0
Arsenic		1000	0.0		1030	103.0	4.4		1080	108.0
Barium		500	-0.50		490	98.0	-0.30		546	109.2
Beryllium		500	-0.10		481	96.2	-0.10		522	104.4
Cadmium		1000	-0.30		868	86.8	0.30		955	95.5
Calcium	500000	500000	506000	101.2	501000	100.2	490000	98.0	494000	98.8
Chromium		500	0.0		449	89.8	0.10		498	99.6
Cobalt		500	-0.50		433	86.6	-0.50		470	94.0
Copper		500	0.0		518	103.6	0.20		581	116.2
Iron	200000	200000	190000	95.0	190000	95.0	189000	94.5	188000	94.0
Lead		1000	0.0		891	89.1	2.6		954	95.4
Magnesium	500000	500000	530000	106.0	521000	104.2	518000	103.6	513000	102.6
Manganese		500	0.40		463	92.6	0.10		510	102.0
Molybdenum		1000	1.0		974	97.4	0.80		970	97.0
Nickel		1000	-0.30		853	85.3	-0.20		935	93.5
Potassium			25.0		-26		46.3		37.9	
Selenium		1000	0.0		996	99.6	2.3		1070	107.0
Silver		1000	0.50		1060	106.0	0.40		1100	110.0
Sodium			66.6		79.9		92.7		127	
Strontium		1000	4.0		1090	109.0	4.2		1100	110.0
Thallium		1000	0.0		942	94.2	1.0		960	96.0
Tin		1000	0.70		930	93.0	-1.0		944	94.4
Titanium		1000	-0.70		1040	104.0	-0.70		1070	107.0
Vanadium		500	0.0		468	93.6	0.70		514	102.8
Zinc		1000	-0.60		885	88.5	-0.50		948	94.8

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

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA1175
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB012913M1.ICP Date Analyzed: 01/29/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10496
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,Se,Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
08:00	MA10496-STD1	1		STDA
08:04	MA10496-STD2	1		STDB
08:08	MA10496-STD3	1		STDC
08:13	MA10496-STD4	1		STDD
08:18	MA10496-HSTD1	1		
08:25	MA10496-ICV1	1		
08:32	MA10496-ICB1	1		
08:35	MA10496-CRIA1	1		
08:44	MA10496-ICSA1	1		
08:50	MA10496-ICSAB1	1		
08:56	MA10496-CCV1	1		
09:02	MA10496-CCB1	1		
09:05	MP24530-MB1	1		
09:10	MP24530-B1	1		
09:14	FA1136-2	1		(sample used for QC only; not part of login FA1175)
09:18	MP24530-D1	1		
09:22	MP24530-SD1	5		
09:26	MP24530-PS1	1		
09:30	MP24530-S1	1		
09:33	MP24530-S2	1		
09:38	ZZZZZZ	1		
09:42	ZZZZZZ	1		
09:46	MA10496-CCV2	1		
09:50	MA10496-CCB2	1		
09:54	ZZZZZZ	1		
09:58	ZZZZZZ	1		
10:02	ZZZZZZ	1		
10:06	ZZZZZZ	1		
10:10	ZZZZZZ	1		
10:14	ZZZZZZ	1		
10:18	ZZZZZZ	1		
10:23	ZZZZZZ	1		
10:27	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA1175
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB012913M1.ICP Date Analyzed: 01/29/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10496
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,Se,Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
10:31	ZZZZZZ	1		
10:35	MA10496-CCV3	1		
10:39	MA10496-CCB3	1		
10:43	ZZZZZZ	1		
10:47	ZZZZZZ	1		
10:51	ZZZZZZ	1		
10:55	ZZZZZZ	1		
10:59	ZZZZZZ	1		
11:04	ZZZZZZ	10		
11:12	ZZZZZZ	20		
11:17	ZZZZZZ	10		
11:21	ZZZZZZ	10		
11:25	MA10496-CCV4	1		
11:29	MA10496-CCB4	1		
11:33	ZZZZZZ	50		
11:38	ZZZZZZ	10		
11:42	ZZZZZZ	50		
11:46	ZZZZZZ	10		
11:50	FA1175-1F	10		
11:54	FA1175-1F	5		
----------> Last reportable sample/prep for job FA1175				
11:59	FA1168-1	4		(sample used for QC only; not part of login FA1175)
12:03	MP24523-D1	4		
12:07	MP24523-S1	4		
12:12	MP24523-S2	4		
12:15	MA10496-CCV5	1		
12:19	MA10496-CCB5	1		
12:24	MP24523-PS1	4		
12:28	MP24523-SD1	20		
12:32	ZZZZZZ	4		
12:37	ZZZZZZ	2		
12:48	ZZZZZZ	4		
12:52	ZZZZZZ	4		
13:14	MA10496-CCV6	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA1175
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB012913M1.ICP Date Analyzed: 01/29/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10496
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,Se,Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
13:18	MA10496-CCB6	1		
14:07	MA10496-CCV7	1		
14:11	MA10496-CCB7	1		
14:24	MA10496-CRIA2	1		
14:28	MA10496-ICSA2	1		
14:38	MA10496-ICSAB2	1		
14:47	MA10496-CCV8	1		
14:54	MA10496-CCB8	1		

----------> Last reportable CCB for job FA1175
Refer to raw data for calibration curve and standards.

INTERNAL STANDARD SUMMARY

Login Number: FA1175
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB012913M1.ICP Date Analyzed: 01/29/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10496
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,Se,Na

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
08:00	MA10496-STD1	5193	32302	5692	2379
08:04	MA10496-STD2	5139	30948	5560	2207
08:08	MA10496-STD3	4990	30171	5532	1978
08:13	MA10496-STD4	4806	29151	5418	1787
08:18	MA10496-HSTD1	4755	28774	5484	1785
08:25	MA10496-ICV1	4979	30157	5552	1961
08:32	MA10496-ICB1	5209 R	31448 R	5521 R	2337 R
08:35	MA10496-CRIA1	5091	30519	5473	2217
08:44	MA10496-ICSA1	4474	26234	5276	1723
08:50	MA10496-ICSAB1	4523	26584	5282	1690
08:56	MA10496-CCV1	4938	29589	5415	1944
09:02	MA10496-CCB1	5159	31346	5512	2332
09:05	MP24530-MB1	5208	31960	5373	2338
09:10	MP24530-B1	4977	29801	5395	2047
09:14	FA1136-2	9151 !	54803 !	10048 !	1996
09:18	MP24530-D1	8770 !	52467 !	9654 !	1998
09:22	MP24530-SD1	6113	36614	6530	2211
09:26	MP24530-PS1	9028 !	53947 !	9881 !	1963
09:30	MP24530-S1	8799 !	52106 !	9655 !	1924
09:33	MP24530-S2	9032 !	53706 !	10075 !	1921
09:38	ZZZZZZ	5335	32156	5657	2267
09:42	ZZZZZZ	5299	31911	5610	2231
09:46	MA10496-CCV2	5067	30061	5480	1982
09:50	MA10496-CCB2	5171	31086	5446	2306
09:54	ZZZZZZ	5376	31850	5693	2276
09:58	ZZZZZZ	5445	32723	5800	2280
10:02	ZZZZZZ	5552	32845	5860	2240
10:06	ZZZZZZ	5335	32106	5605	2323
10:10	ZZZZZZ	5411	32218	5627	2294
10:14	ZZZZZZ	5361	32314	5699	2340
10:18	ZZZZZZ	5335	32084	5668	2286
10:23	ZZZZZZ	5440	32627	5684	2320
10:27	ZZZZZZ	5400	32255	5615	2305

INTERNAL STANDARD SUMMARY

Login Number: FA1175
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB012913M1.ICP Date Analyzed: 01/29/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10496
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,Se,Na

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
10:31	ZZZZZZ	5359	31881	5618	2295
10:35	MA10496-CCV3	5049	29775	5493	1989
10:39	MA10496-CCB3	5328	31216	5504	2403
10:43	ZZZZZZ	5333	32023	5657	2279
10:47	ZZZZZZ	5277	31885	5566	2272
10:51	ZZZZZZ	5177	31098	5480	2210
10:55	ZZZZZZ	5418	32509	5673	2325
10:59	ZZZZZZ	5459	32491	5733	2356
11:04	ZZZZZZ	5241	30870	5845	2016
11:12	ZZZZZZ	5356	32142	5928	2076
11:17	ZZZZZZ	5460	32265	6150	1851
11:21	ZZZZZZ	4762	28606	5359	1927
11:25	MA10496-CCV4	4962	29710	5529	2000
11:29	MA10496-CCB4	5055	30576	5408	2316
11:33	ZZZZZZ	5114	30702	5516	2187
11:38	ZZZZZZ	4811	28936	5473	1899
11:42	ZZZZZZ	5109	30670	5561	2169
11:46	ZZZZZZ	5169	30995	5564	2264
11:50	FA1175-1F	5558	32889	6149	1990
11:54	FA1175-1F	6038	36028	7010 !	1849
11:59	FA1168-1	5209	31326	5600	2267
12:03	MP24523-D1	5036	30266	5397	2192
12:07	MP24523-S1	4946	29557	5323	2114
12:12	MP24523-S2	4959	29859	5357	2127
12:15	MA10496-CCV5	4983	29899	5459	2017
12:19	MA10496-CCB5	5200	31401	5446	2387
12:24	MP24523-PS1	4987	30235	5454	2193
12:28	MP24523-SD1	5059	30899	5367	2312
12:32	ZZZZZZ	4085	24273	4931	1620
12:37	ZZZZZZ	4191	25239	5115	1664
12:48	ZZZZZZ	4335	25839	5053	1735
12:52	ZZZZZZ	4279	25605	5049	1716
13:14	MA10496-CCV6	4872	29276	5311	1964

INTERNAL STANDARD SUMMARY

Login Number: FA1175
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB012913M1.ICP Date Analyzed: 01/29/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10496
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,Se,Na

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
13:18	MA10496-CCB6	5110	31210	5407	2352
14:07	MA10496-CCV7	4883	29680	5322	1970
14:11	MA10496-CCB7	5277	32292	5552	2418
14:24	MA10496-CRIA2	5182	31686	5498	2308
14:28	MA10496-ICSA2	4499	26656	5137	1766
14:38	MA10496-ICSAB2	4453	26627	5198	1715
14:47	MA10496-CCV8	4921	29711	5367	1985
14:54	MA10496-CCB8	5209	31682	5464	2396

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: FA1175
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB012913M1.ICP Date Analyzed: 01/29/13 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA10496 Units: ug/l

Time:			08:32		09:02		09:50		10:39	
Sample ID:			ICB1		CCB1		CCB2		CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	15	5.8	<200	-2.9	<200	5.0	<200	-4.5	<200
Antimony	20	1.3	0.30	<20	-1.0	<20	-1.3	<20	-2.4	<20
Arsenic	10	1.6	-0.40	<10	-0.20	<10	-0.20	<10	-0.10	<10
Barium	200	1	anr							
Beryllium	5.0	.5	anr							
Cadmium	4.0	.5	0.20	<4.0	0.20	<4.0	0.30	<4.0	0.30	<4.0
Calcium	5000	50	14.5	<5000	5.9	<5000	2.1	<5000	3.8	<5000
Chromium	10	1.8	0.0	<10	0.30	<10	0.20	<10	0.10	<10
Cobalt	50	.5	anr							
Copper	25	1	anr							
Iron	300	29	6.0	<300	9.6	<300	7.8	<300	8.7	<300
Lead	20	1.1	anr							
Magnesium	5000	74	79.4	<5000	5.9	<5000	10.3	<5000	11.9	<5000
Manganese	15	.7	anr							
Molybdenum	50	.6								
Nickel	40	.5	anr							
Potassium	10000	200								
Selenium	20	2	1.4	<20	-0.20	<20	1.9	<20	2.3	<20
Silver	10	.5	anr							
Sodium	10000	500	260	<10000	15.3	<10000	16.6	<10000	5.4	<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: FA1175
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB012913M1.ICP Date Analyzed: 01/29/13 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA10496 Units: ug/l

Time:			11:29		12:19		13:18		14:11	
Sample ID:			CCB4		CCB5		CCB6		CCB7	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	15	5.5	<200	-2.1	<200	-11	<200	-6.4	<200
Antimony	20	1.3	-0.90	<20	-1.8	<20	-1.0	<20	-0.80	<20
Arsenic	10	1.6	0.0	<10	0.10	<10	-0.30	<10	0.20	<10
Barium	200	1	anr							
Beryllium	5.0	.5	anr							
Cadmium	4.0	.5	0.20	<4.0	0.10	<4.0	0.10	<4.0	0.20	<4.0
Calcium	5000	50	5.0	<5000	-1.0	<5000	4.0	<5000	6.7	<5000
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	7.7	<300	7.9	<300	8.6	<300	9.0	<300
Lead	20	1.1	anr							
Magnesium	5000	74	-13	<5000	23.2	<5000	14.2	<5000	4.1	<5000
Manganese	15	.7	anr							
Molybdenum	50	.6								
Nickel	40	.5	anr							
Potassium	10000	200								
Selenium	20	2	1.0	<20	1.8	<20	1.6	<20	1.4	<20
Silver	10	.5	anr							
Sodium	10000	500	10.4	<10000	35.4	<10000	241	<10000	240	<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: FA1175
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB012913M1.ICP Date Analyzed: 01/29/13 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA10496 Units: ug/l

Time:			14:54	
Sample ID:			CCB8	
Metal	RL	IDL	raw	final
Aluminum	200	15	-6.5	<200
Antimony	20	1.3	-1.6	<20
Arsenic	10	1.6	0.10	<10
Barium	200	1	anr	
Beryllium	5.0	.5	anr	
Cadmium	4.0	.5	0.10	<4.0
Calcium	5000	50	3.7	<5000
Chromium	10	1.8	-0.10	<10
Cobalt	50	.5	anr	
Copper	25	1	anr	
Iron	300	29	8.6	<300
Lead	20	1.1	anr	
Magnesium	5000	74	19.5	<5000
Manganese	15	.7	anr	
Molybdenum	50	.6		
Nickel	40	.5	anr	
Potassium	10000	200		
Selenium	20	2	0.80	<20
Silver	10	.5	anr	
Sodium	10000	500	82.9	<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

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA1175
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB012913M1.ICP Date Analyzed: 01/29/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA10496 Units: ug/l

Time:		08:25			08:56			09:46	
Sample ID:	ICV	ICV1		CCV	CCV1		CCV	CCV2	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	40600	101.5	40000	40600	101.5	40000	40100	100.3
Antimony	2000	2010	100.5	2000	2000	100.0	2000	1930	96.5
Arsenic	2000	1970	98.5	2000	2000	100.0	2000	1940	97.0
Barium	anr								
Beryllium	anr								
Cadmium	2000	2020	101.0	2000	2050	102.5	2000	2000	100.0
Calcium	40000	42300	105.8	40000	40700	101.8	40000	40200	100.5
Chromium	2000	2020	101.0	2000	2050	102.5	2000	2040	102.0
Cobalt	anr								
Copper	anr								
Iron	40000	42200	105.5	40000	40400	101.0	40000	39500	98.8
Lead	anr								
Magnesium	40000	41200	103.0	40000	40100	100.3	40000	39600	99.0
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium									
Selenium	2000	2040	102.0	2000	2010	100.5	2000	1940	97.0
Silver	anr								
Sodium	40000	38200	95.5	40000	40700	101.8	40000	40300	100.8
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: FA1175
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB012913M1.ICP Date Analyzed: 01/29/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA10496 Units: ug/l

Time:		10:35			11:25			12:15	
Sample ID:	CCV	CCV3		CCV	CCV4		CCV	CCV5	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	40300	100.8	40000	39800	99.5	40000	39200	98.0
Antimony	2000	1960	98.0	2000	2030	101.5	2000	2000	100.0
Arsenic	2000	1970	98.5	2000	2010	100.5	2000	1990	99.5
Barium	anr								
Beryllium	anr								
Cadmium	2000	2020	101.0	2000	2030	101.5	2000	1990	99.5
Calcium	40000	40400	101.0	40000	39600	99.0	40000	39000	97.5
Chromium	2000	2070	103.5	2000	2040	102.0	2000	2000	100.0
Cobalt	anr								
Copper	anr								
Iron	40000	39600	99.0	40000	39900	99.8	40000	39700	99.3
Lead	anr								
Magnesium	40000	39700	99.3	40000	39400	98.5	40000	39000	97.5
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium									
Selenium	2000	1980	99.0	2000	2040	102.0	2000	2000	100.0
Silver	anr								
Sodium	40000	40500	101.3	40000	39900	99.8	40000	39600	99.0
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: FA1175
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB012913M1.ICP Date Analyzed: 01/29/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA10496 Units: ug/l

Time:		13:14			14:07			14:47	
Sample ID:	CCV	CCV6		CCV	CCV7		CCV	CCV8	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	39900	99.8	40000	40000	100.0	40000	39600	99.0
Antimony	2000	2040	102.0	2000	2060	103.0	2000	2060	103.0
Arsenic	2000	2030	101.5	2000	2030	101.5	2000	2030	101.5
Barium	anr								
Beryllium	anr								
Cadmium	2000	2030	101.5	2000	2020	101.0	2000	2010	100.5
Calcium	40000	39700	99.3	40000	39600	99.0	40000	39000	97.5
Chromium	2000	2030	101.5	2000	2010	100.5	2000	2000	100.0
Cobalt	anr								
Copper	anr								
Iron	40000	40300	100.8	40000	40900	102.3	40000	39600	99.0
Lead	anr								
Magnesium	40000	39600	99.0	40000	39500	98.8	40000	38500	96.3
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium									
Selenium	2000	2040	102.0	2000	2060	103.0	2000	2060	103.0
Silver	anr								
Sodium	40000	41000	102.5	40000	41100	102.8	40000	40600	101.5
Strontium									
Thallium	anr								
Tin	anr								
Titanium									
Vanadium	anr								
Zinc	anr								

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

HIGH STANDARD CHECK SUMMARY

Login Number: FA1175
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB012913M1.ICP Date Analyzed: 01/29/13 Methods: SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA10496 Units: ug/l

Time:		08:18	
Sample ID:	HSTD	HSTD1	
Metal	True	Results	% Rec
Aluminum	80000	80500	100.6
Antimony	4000	4100	102.5
Arsenic	4000	4080	102.0
Barium	anr		
Beryllium	anr		
Cadmium	4000	4020	100.5
Calcium	80000	80000	100.0
Chromium	4000	4030	100.8
Cobalt	anr		
Copper	anr		
Iron	80000	79600	99.5
Lead	anr		
Magnesium	80000	80100	100.1
Manganese	anr		
Molybdenum			
Nickel	anr		
Potassium			
Selenium	4000	4100	102.5
Silver	anr		
Sodium	80000	80700	100.9
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: FA1175
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB012913M1.ICP Date Analyzed: 01/29/13 Methods: SW846 6010C
QC Limits: CRI 70-130% CRIA 70-130% Run ID: MA10496 Units: ug/l

Time:			08:35		14:24	
Sample ID:	CRI	CRIA	CRIA1		CRIA2	
Metal	True	True	Results	% Rec	Results	% Rec
Aluminum	400	200	205	102.5	208	104.0
Antimony	10	5.0	5.3	106.0	3.2	64.0*(a)
Arsenic	20	10	9.5	95.0	9.7	97.0
Barium	400	200	anr			
Beryllium	10	5.0	anr			
Cadmium	10	5.0	5.5	110.0	5.2	104.0
Calcium	2000	1000	1090	109.0	1010	101.0
Chromium	20	10	11.1	111.0	10.1	101.0
Cobalt	100	50	anr			
Copper	50	25	anr			
Iron	600	300	328	109.3	314	104.7
Lead	10	5.0	anr			
Magnesium	10000	5000	5270	105.4	4980	99.6
Manganese	30	15	anr			
Molybdenum	100	50				
Nickel	80	40	anr			
Potassium	20000	10000				
Selenium	20	10	11.9	119.0	11.5	115.0
Silver	20	10	anr			
Sodium	20000	10000	10600	106.0	10500	105.0
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
(a) Possible instrument baseline drift.

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

Login Number: FA1175
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB012913M1.ICP Date Analyzed: 01/29/13 Methods: SW846 6010C
QC Limits: 80 to 120 % Recovery Run ID: MA10496 Units: ug/l

Time:			08:44		08:50		14:28		14:38	
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	507000	101.4	503000	100.6	495000	99.0
Antimony		1000	-1.9		1020	102.0	-0.30		1070	107.0
Arsenic		1000	-0.20		1020	102.0	0.50		1050	105.0
Barium		500	-0.30		485	97.0	0.70		490	98.0
Beryllium		500	0.0		461	92.2	0.0		464	92.8
Cadmium		1000	0.60		884	88.4	0.20		875	87.5
Calcium	500000	500000	483000	96.6	475000	95.0	465000	93.0	454000	90.8
Chromium		500	0.10		458	91.6	0.0		448	89.6
Cobalt		500	0.40		437	87.4	0.30		435	87.0
Copper		500	0.0		497	99.4	1.0		513	102.6
Iron	200000	200000	190000	95.0	186000	93.0	186000	93.0	185000	92.5
Lead		1000	-0.20		882	88.2	-4.6		839	83.9
Magnesium	500000	500000	492000	98.4	477000	95.4	475000	95.0	464000	92.8
Manganese		500	-0.10		465	93.0	-0.10		471	94.2
Molybdenum		1000	0.80		959	95.9	0.90		1020	102.0
Nickel		1000	0.50		857	85.7	0.50		892	89.2
Potassium			68.6		26.1		66.9		22.7	
Selenium		1000	-1.2		1000	100.0	1.2		1040	104.0
Silver		1000	-0.40		941	94.1	-0.40		945	94.5
Sodium			116		139		494		282	
Strontium		1000	4.7		1060	106.0	5.0		1110	111.0
Thallium		1000	0.0		939	93.9	1.9		965	96.5
Tin		1000	-0.30		928	92.8	-0.20		940	94.0
Titanium		1000	-2.5		1050	105.0	-2.5		1090	109.0
Vanadium		500	0.0		469	93.8	0.0		469	93.8
Zinc		1000	-2.9		883	88.3	-1.5		863	86.3

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

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA1175
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB013013M1.ICP Date Analyzed: 01/30/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10501
Parameters: K

Time	Sample Description	Dilution Factor	PS Recov	Comments
07:36	MA10501-STD1	1		STDA
07:39	MA10501-STD2	1		STDB
07:43	MA10501-STD3	1		STDC
07:47	MA10501-STD4	1		STDD
07:54	MA10501-HSTD1	1		
08:03	MA10501-ICV1	1		
08:09	MA10501-ICB1	1		
08:13	MA10501-CRIA1	1		
08:24	MA10501-ICSA1	1		
08:31	MA10501-ICSAB1	1		
08:37	MA10501-CCV1	1		
08:45	MA10501-CCB1	1		
08:51	MP24537-MB1	1		
08:55	MP24537-B1	1		
08:59	FA1257-1	1		(sample used for QC only; not part of login FA1175)
09:03	MP24537-D1	1		
09:08	MP24537-SD1	5		
09:12	MP24537-PS1	1		
09:16	MP24537-S1	1		
09:20	MP24537-S2	1		
09:24	ZZZZZZ	1		
09:28	ZZZZZZ	1		
09:32	MA10501-CCV2	1		
09:36	MA10501-CCB2	1		
09:40	ZZZZZZ	1		
09:44	ZZZZZZ	1		
09:48	ZZZZZZ	1		
09:52	ZZZZZZ	1		
09:56	ZZZZZZ	1		
10:01	ZZZZZZ	1		
10:05	ZZZZZZ	1		
10:09	ZZZZZZ	1		
10:13	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA1175
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB013013M1.ICP Date Analyzed: 01/30/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10501
Parameters: K

Time	Sample Description	Dilution Factor	PS Recov	Comments
10:21	MA10501-CCV3	1		
10:25	MA10501-CCB3	1		
10:29	ZZZZZZ	1		
10:34	ZZZZZZ	1		
10:38	ZZZZZZ	1		
10:50	ZZZZZZ	1		
10:54	ZZZZZZ	1		
10:59	MA10501-CCV4	1		
11:02	MA10501-CCB4	1		
11:39	MP24539-MB1	1		
11:43	MP24539-B1	1		
11:47	FA1203-19	1		(sample used for QC only; not part of login FA1175)
11:51	MP24539-D1	1		
11:55	MP24539-SD1	5		
11:59	MP24539-PS1	1		
12:04	MP24539-S1	1		
12:07	MP24539-S2	1		
12:11	ZZZZZZ	1		
12:16	ZZZZZZ	1		
12:20	MA10501-CCV5	1		
12:24	MA10501-CCB5	1		
12:28	ZZZZZZ	1		
12:32	ZZZZZZ	1		
12:36	ZZZZZZ	1		
12:40	ZZZZZZ	1		
12:45	ZZZZZZ	1		
12:49	ZZZZZZ	1		
12:53	MP24539-MB2A	1		
12:57	MA10501-CCV6	1		
13:01	MA10501-CCB6	1		
13:18	MP24542-MB1	1		
13:23	MP24542-B1	1		
13:27	FA1214-1	1		(sample used for QC only; not part of login FA1175)

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA1175
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB013013M1.ICP Date Analyzed: 01/30/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10501
Parameters: K

Time	Sample Description	Dilution Factor	PS Recov	Comments
13:31	MP24542-D1	1		
13:35	MP24542-SD1	5		
13:43	MP24542-S1	1		
13:47	MP24542-S2	1		
13:52	ZZZZZZ	1		
13:56	ZZZZZZ	1		
14:00	MA10501-CCV7	1		
14:04	MA10501-CCB7	1		
14:08	ZZZZZZ	1		
14:12	ZZZZZZ	1		
14:17	ZZZZZZ	1		
14:21	ZZZZZZ	1		
14:25	ZZZZZZ	1		
14:30	MP24542-D2	1		
14:34	MP24542-MB2	1		
14:38	MP24542-B2	1		
14:42	ZZZZZZ	50		
14:46	ZZZZZZ	200		
14:51	MA10501-CCV8	1		
14:55	MA10501-CCB8	1		
14:59	ZZZZZZ	200		
15:03	FA1175-1F	10		
----------> Last reportable sample/prep for job FA1175				
15:07	MA10501-CRIA2	1		
15:11	MA10501-ICSA2	1		
15:16	MA10501-ICSAB2	1		
15:20	MA10501-CCV9	1		
15:24	MA10501-CCB9	1		
----------> Last reportable CCB for job FA1175				

Refer to raw data for calibration curve and standards.

INTERNAL STANDARD SUMMARY

Login Number: FA1175
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB013013M1.ICP Date Analyzed: 01/30/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10501
Parameters: K

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
07:36	MA10501-STD1	5823	34407	3659	2771
07:39	MA10501-STD2	5661	33503	3616	2518
07:43	MA10501-STD3	5372	31510	3577	2224
07:47	MA10501-STD4	5114	30186	3520	2003
07:54	MA10501-HSTD1	5080	31108	3559	2017
08:03	MA10501-ICV1	5278	31553	3611	2206
08:09	MA10501-ICB1	5527 R	34043 R	3628 R	2722 R
08:13	MA10501-CRIA1	5472	33581	3678	2581
08:24	MA10501-ICSA1	4743	27932	3455	1916
08:31	MA10501-ICSAB1	4662	27973	3414	1873
08:37	MA10501-CCV1	5226	31527	3641	2213
08:45	MA10501-CCB1	5506	34296	3645	2703
08:51	MP24537-MB1	5478	34438	3655	2718
08:55	MP24537-B1	5276	31995	3648	2328
08:59	FA1257-1	5186	30818	3674	2253
09:03	MP24537-D1	5176	31319	3654	2267
09:08	MP24537-SD1	5324	32747	3653	2477
09:12	MP24537-PS1	5107	31347	3643	2235
09:16	MP24537-S1	5134	30790	3672	2145
09:20	MP24537-S2	5177	30709	3655	2160
09:24	ZZZZZZ	5180	31632	3716	2251
09:28	ZZZZZZ	5145	31405	3658	2270
09:32	MA10501-CCV2	5237	31467	3649	2206
09:36	MA10501-CCB2	5635	34566	3750	2739
09:40	ZZZZZZ	5376	32917	3695	2481
09:44	ZZZZZZ	5414	32835	3689	2518
09:48	ZZZZZZ	5056	30586	3568	2246
09:52	ZZZZZZ	5640	33746	3752	2665
09:56	ZZZZZZ	5530	32482	3704	2507
10:01	ZZZZZZ	5645	34259	3758	2689
10:05	ZZZZZZ	5460	32698	3691	2470
10:09	ZZZZZZ	5082	30222	3607	2212
10:13	ZZZZZZ	5141	30264	3657	2216

INTERNAL STANDARD SUMMARY

Login Number: FA1175
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB013013M1.ICP Date Analyzed: 01/30/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10501
Parameters: K

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
10:21	MA10501-CCV3	5235	31358	3620	2197
10:25	MA10501-CCB3	5608	34325	3706	2715
10:29	ZZZZZZ	5304	31535	3703	2393
10:34	ZZZZZZ	5382	31352	3664	2390
10:38	ZZZZZZ	5281	31294	3681	2346
10:50	ZZZZZZ	5413	31276	3758	2195
10:54	ZZZZZZ	5638	32871	3720	2595
10:59	MA10501-CCV4	5320	31039	3610	2200
11:02	MA10501-CCB4	5683	34049	3697	2730
11:39	MP24539-MB1	5609	33710	3681	2687
11:43	MP24539-B1	5310	31532	3609	2303
11:47	FA1203-19	5501	32997	3663	2580
11:51	MP24539-D1	5566	32753	3648	2567
11:55	MP24539-SD1	5681	33398	3653	2690
11:59	MP24539-PS1	5520	32755	3649	2470
12:04	MP24539-S1	5438	31991	3693	2325
12:07	MP24539-S2	5474	31657	3668	2325
12:11	ZZZZZZ	5464	31394	3773	2183
12:16	ZZZZZZ	5552	33202	3691	2580
12:20	MA10501-CCV5	5278	31173	3591	2189
12:24	MA10501-CCB5	5585	33174	3637	2668
12:28	ZZZZZZ	5709	33183	3737	2627
12:32	ZZZZZZ	5548	32505	3704	2495
12:36	ZZZZZZ	5275	31354	3619	2342
12:40	ZZZZZZ	5509	32274	3634	2500
12:45	ZZZZZZ	5413	31091	3693	2379
12:49	ZZZZZZ	5545	32748	3716	2520
12:53	MP24539-MB2A	5544	33357	3644	2670
12:57	MA10501-CCV6	5286	31327	3603	2205
13:01	MA10501-CCB6	5606	33431	3679	2700
13:18	MP24542-MB1	5585	33481	3624	2674
13:23	MP24542-B1	5452	31509	3646	2339
13:27	FA1214-1	5374	31035	3683	2248

INTERNAL STANDARD SUMMARY

Login Number: FA1175
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB013013M1.ICP Date Analyzed: 01/30/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10501
Parameters: K

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
13:31	MP24542-D1	5340	31308	3666	2254
13:35	MP24542-SD1	5477	31901	3633	2450
13:43	MP24542-S1	5367	31315	3745	2169
13:47	MP24542-S2	5304	31077	3737	2147
13:52	ZZZZZZ	5483	31679	3769	2292
13:56	ZZZZZZ	5345	30730	3764	2264
14:00	MA10501-CCV7	5392	31240	3661	2210
14:04	MA10501-CCB7	5683	33650	3679	2710
14:08	ZZZZZZ	5371	31249	3687	2311
14:12	ZZZZZZ	5354	30671	3725	2313
14:17	ZZZZZZ	5315	30296	3705	2222
14:21	ZZZZZZ	5303	30952	3735	2240
14:25	ZZZZZZ	5394	31315	3723	2334
14:30	MP24542-D2	5577	32119	3893	2307
14:34	MP24542-MB2	5358	30637	3723	2313
14:38	MP24542-B2	5319	30776	3682	2193
14:42	ZZZZZZ	5695	33371	3842	2358
14:46	ZZZZZZ	5784	33481	3856	2638
14:51	MA10501-CCV8	5343	31149	3641	2195
14:55	MA10501-CCB8	5694	34041	3733	2711
14:59	ZZZZZZ	5618	33050	3729	2574
15:03	FA1175-1F	6082	34391	4223	2182
15:07	MA10501-CRIA2	5636	32813	3675	2557
15:11	MA10501-ICSA2	4889	27757	3489	1929
15:16	MA10501-ICSAB2	4948	27925	3559	1921
15:20	MA10501-CCV9	5443	31273	3712	2230
15:24	MA10501-CCB9	5739	33708	3706	2721

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: FA1175
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB013013M1.ICP Date Analyzed: 01/30/13 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA10501 Units: ug/l

Time:			08:09		08:45		09:36		10:25	
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								
Arsenic	10	1.6	anr							
Barium	200	1	anr							
Beryllium	4.0	.5	anr							
Cadmium	5.0	.5	anr							
Calcium	1000	50	anr							
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	anr							
Manganese	15	.7	anr							
Molybdenum	50	.6								
Nickel	40	.5	anr							
Potassium	10000	200	64.6	<10000	-5.1	<10000	28.2	<10000	7.2	<10000
Selenium	10	2	anr							
Silver	10	.5	anr							
Sodium	10000	500	anr							
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: FA1175
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB013013M1.ICP Date Analyzed: 01/30/13 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA10501 Units: ug/l

Time:			11:02		12:24		13:01		14:04	
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								
Arsenic	10	1.6	anr							
Barium	200	1	anr							
Beryllium	4.0	.5	anr							
Cadmium	5.0	.5	anr							
Calcium	1000	50	anr							
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	anr							
Manganese	15	.7	anr							
Molybdenum	50	.6								
Nickel	40	.5	anr							
Potassium	10000	200	-8.5	<10000	-20	<10000	-11	<10000	-23	<10000
Selenium	10	2	anr							
Silver	10	.5	anr							
Sodium	10000	500	anr							
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: FA1175
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB013013M1.ICP Date Analyzed: 01/30/13 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA10501 Units: ug/l

Time:			14:55		15:24	
Sample ID:			CCB8		CCB9	
Metal	RL	IDL	raw	final	raw	final
Aluminum	200	15	anr			
Antimony	6.0	1.3				
Arsenic	10	1.6	anr			
Barium	200	1	anr			
Beryllium	4.0	.5	anr			
Cadmium	5.0	.5	anr			
Calcium	1000	50	anr			
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	anr			
Manganese	15	.7	anr			
Molybdenum	50	.6				
Nickel	40	.5	anr			
Potassium	10000	200	-42	<10000	-65	<10000
Selenium	10	2	anr			
Silver	10	.5	anr			
Sodium	10000	500	anr			
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: FA1175
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB013013M1.ICP Date Analyzed: 01/30/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA10501 Units: ug/l

Time:		08:03			08:37			09:32	
Sample ID:	ICV	ICV1		CCV	CCV1		CCV	CCV2	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony									
Arsenic	anr								
Barium	anr								
Beryllium	anr								
Cadmium	anr								
Calcium	anr								
Chromium	anr								
Cobalt									
Copper	anr								
Iron	anr								
Lead	anr								
Magnesium	anr								
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium	40000	41200	103.0	40000	38600	96.5	40000	38500	96.3
Selenium	anr								
Silver	anr								
Sodium	anr								
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: FA1175
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB013013M1.ICP Date Analyzed: 01/30/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA10501 Units: ug/l

Time:		10:21			10:59			12:20	
Sample ID:	CCV	CCV3		CCV	CCV4		CCV	CCV5	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony									
Arsenic	anr								
Barium	anr								
Beryllium	anr								
Cadmium	anr								
Calcium	anr								
Chromium	anr								
Cobalt									
Copper	anr								
Iron	anr								
Lead	anr								
Magnesium	anr								
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium	40000	38400	96.0	40000	39000	97.5	40000	38600	96.5
Selenium	anr								
Silver	anr								
Sodium	anr								
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: FA1175
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB013013M1.ICP Date Analyzed: 01/30/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA10501 Units: ug/l

Time:		12:57			14:00			14:51	
Sample ID:	CCV	CCV6		CCV	CCV7		CCV	CCV8	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony									
Arsenic	anr								
Barium	anr								
Beryllium	anr								
Cadmium	anr								
Calcium	anr								
Chromium	anr								
Cobalt									
Copper	anr								
Iron	anr								
Lead	anr								
Magnesium	anr								
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium	40000	38300	95.8	40000	39000	97.5	40000	39600	99.0
Selenium	anr								
Silver	anr								
Sodium	anr								
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: FA1175
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB013013M1.ICP Date Analyzed: 01/30/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA10501 Units: ug/l

Time:		15:20	
Sample ID:	CCV	CCV9	
Metal	True	Results	% Rec
Aluminum	anr		
Antimony			
Arsenic	anr		
Barium	anr		
Beryllium	anr		
Cadmium	anr		
Calcium	anr		
Chromium	anr		
Cobalt			
Copper	anr		
Iron	anr		
Lead	anr		
Magnesium	anr		
Manganese	anr		
Molybdenum			
Nickel	anr		
Potassium	40000	39200	98.0
Selenium	anr		
Silver	anr		
Sodium	anr		
Strontium			
Thallium	anr		
Tin			
Titanium			
Vanadium	anr		
Zinc	anr		

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

HIGH STANDARD CHECK SUMMARY

Login Number: FA1175
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB013013M1.ICP Date Analyzed: 01/30/13 Methods: SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA10501 Units: ug/l

Time:		07:54	
Sample ID:	HSTD	HSTD1	
Metal	True	Results	% Rec
Aluminum	anr		
Antimony			
Arsenic	anr		
Barium	anr		
Beryllium	anr		
Cadmium	anr		
Calcium	anr		
Chromium	anr		
Cobalt			
Copper	anr		
Iron	anr		
Lead	anr		
Magnesium	anr		
Manganese	anr		
Molybdenum			
Nickel	anr		
Potassium	80000	78700	98.4
Selenium	anr		
Silver	anr		
Sodium	anr		
Strontium			
Thallium	anr		
Tin			
Titanium			
Vanadium	anr		
Zinc	anr		

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

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: FA1175
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB013013M1.ICP Date Analyzed: 01/30/13 Methods: SW846 6010C
QC Limits: CRI 70-130% CRIA 70-130% Run ID: MA10501 Units: ug/l

Time:			08:13		15:07	
Sample ID:	CRI	CRIA	CRIA1		CRIA2	
Metal	True	True	Results	% Rec	Results	% Rec
Aluminum	400	200	anr			
Antimony	10	5.0				
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				
Copper	50	25	anr			
Iron	600	300	anr			
Lead	10	5.0	anr			
Magnesium	10000	5000	anr			
Manganese	30	15	anr			
Molybdenum	100	50				
Nickel	80	40	anr			
Potassium	20000	10000	9690	96.9	9930	99.3
Selenium	20	10	anr			
Silver	20	10	anr			
Sodium	20000	10000	anr			
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: FA1175
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB013013M1.ICP Date Analyzed: 01/30/13 Methods: SW846 6010C
QC Limits: 80 to 120 % Recovery Run ID: MA10501 Units: ug/l

Time:			08:24		08:31		15:11		15:16	
Sample ID:	ICSA	ICSAB	ICSA1		ICSAB1		ICSA2		ICSAB2	
Metal	True	True	Results	% Rec	Results	% Rec	Results	% Rec	Results	% Rec
Aluminum	500000	500000	499000	99.8	503000	100.6	506000	101.2	498000	99.6
Antimony		1000	-0.40		1030	103.0	-1.7		1010	101.0
Arsenic		1000	1.4		1050	105.0	1.7		1010	101.0
Barium		500	-0.50		487	97.4	-0.30		483	96.6
Beryllium		500	0.0		458	91.6	0.0		464	92.8
Cadmium		1000	-1.0		932	93.2	-2.4		858	85.8
Calcium	500000	500000	482000	96.4	478000	95.6	475000	95.0	466000	93.2
Chromium		500	-0.40		460	92.0	-0.60		454	90.8
Cobalt		500	0.0		458	91.6	0.30		426	85.2
Copper		500	-1.6		477	95.4	-1.3		495	99.0
Iron	200000	200000	183000	91.5	183000	91.5	185000	92.5	183000	91.5
Lead		1000	0.0		851	85.1	-5.9		863	86.3
Magnesium	500000	500000	476000	95.2	471000	94.2	474000	94.8	461000	92.2
Manganese		500	-0.80		458	91.6	-1.0		466	93.2
Molybdenum		1000	1.0		976	97.6	0.90		961	96.1
Nickel		1000	0.60		880	88.0	1.0		859	85.9
Potassium			76.8		47.9		11.9		4.4	
Selenium		1000	0.0		1020	102.0	-1.9		987	98.7
Silver		1000	-0.10		974	97.4	-0.10		984	98.4
Sodium			171		211		472		364	
Strontium		1000	3.7		1040	104.0	4.0		1070	107.0
Thallium		1000	1.9		928	92.8	1.5		942	94.2
Tin		1000	-1.0		963	96.3	-0.80		909	90.9
Titanium		1000	-2.6		1020	102.0	-2.7		1070	107.0
Vanadium		500	-0.70		467	93.4	-0.10		471	94.2
Zinc		1000	-2.4		884	88.4	-2.4		871	87.1

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

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: FA1175
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

QC Batch ID: MP24527
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 01/28/13

Metal	RL	IDL	MDL	MB raw	final
Aluminum	200	15	15	3.4	<200
Antimony	6.0	1.3	1.3	0.0	<6.0
Arsenic	10	1.6	2.5	0.50	<10
Barium	200	1	1		
Beryllium	4.0	.5	.5		
Cadmium	5.0	.5	.5	-0.10	<5.0
Calcium	1000	50	50	10.1	<1000
Chromium	10	1.8	2	-0.20	<10
Cobalt	50	.5	.5		
Copper	25	1	1		
Iron	300	29	29	5.8	<300
Lead	5.0	1.1	1.1		
Magnesium	5000	74	74	-5.6	<5000
Manganese	15	.7	.7		
Molybdenum	50	.6	1		
Nickel	40	.5	.5		
Potassium	10000	200	200	18.0	<10000
Selenium	10	2	2		
Silver	10	.5	.5		
Sodium	10000	500	500	5.8	<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 MP24527: FA1175-1F

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: FA1175
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

QC Batch ID: MP24527
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date:			01/28/13					01/28/13	
Metal	FA1193-1 Original	DUP	RPD	QC Limits	FA1193-1 Original	MS	Spikelot MPFLICP1	% Rec	QC Limits
Aluminum	1090	1220	11.3	0-20	1090	29700	27000	106.0	80-120
Antimony	0.0	0.0	NC	0-20	0.0	527	500	105.4	80-120
Arsenic	0.0	0.0	NC	0-20	0.0	2050	2000	102.5	80-120
Barium									
Beryllium									
Cadmium	0.0	0.0	NC	0-20	0.0	50.8	50	101.6	80-120
Calcium	5690	5760	1.2	0-20	5690	31800	25000	104.4	80-120
Chromium	1.9	2.4	23.3 (a)	0-20	1.9	215	200	106.6	80-120
Cobalt									
Copper									
Iron	1580	1640	3.7	0-20	1580	29600	26000	107.8	80-120
Lead	anr								
Magnesium	3450	3470	0.6	0-20	3450	29100	25000	102.6	80-120
Manganese	anr								
Molybdenum									
Nickel									
Potassium	1530	1560	1.9	0-20	1530	28500	25000	107.9	80-120
Selenium									
Silver									
Sodium	43900	43900	0.0	0-20	43900	71300	25000	109.6	80-120
Strontium									
Thallium									
Tin									
Titanium									
Vanadium									
Zinc									

Associated samples MP24527: FA1175-1F

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: FA1175
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

QC Batch ID: MP24527
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 01/28/13

Metal	FA1193-1 Original	MSD	Spikelot MPFLICP1	% Rec	MSD RPD	QC Limit
Aluminum	1090	29700	27000	106.0	0.0	20
Antimony	0.0	529	500	105.8	0.4	20
Arsenic	0.0	2050	2000	102.5	0.0	20
Barium						
Beryllium						
Cadmium	0.0	50.8	50	101.6	0.0	20
Calcium	5690	31700	25000	104.0	0.3	20
Chromium	1.9	221	200	109.6	2.8	20
Cobalt						
Copper						
Iron	1580	29900	26000	108.9	1.0	20
Lead	anr					
Magnesium	3450	29200	25000	103.0	0.3	20
Manganese	anr					
Molybdenum						
Nickel						
Potassium	1530	28100	25000	106.3	1.4	20
Selenium						
Silver						
Sodium	43900	68700	25000	99.2	3.7	20
Strontium						
Thallium						
Tin						
Titanium						
Vanadium						
Zinc						

Associated samples MP24527: FA1175-1F

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: FA1175
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

QC Batch ID: MP24527
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 01/28/13

Metal	BSP Result	Spikelot MPFLICP1	% Rec	QC Limits
Aluminum	28500	27000	105.6	80-120
Antimony	530	500	106.0	80-120
Arsenic	2050	2000	102.5	80-120
Barium				
Beryllium				
Cadmium	51.4	50	102.8	80-120
Calcium	26300	25000	105.2	80-120
Chromium	214	200	107.0	80-120
Cobalt				
Copper				
Iron	28300	26000	108.8	80-120
Lead	anr			
Magnesium	25800	25000	103.2	80-120
Manganese	anr			
Molybdenum				
Nickel				
Potassium	26500	25000	106.0	80-120
Selenium				
Silver				
Sodium	26600	25000	106.4	80-120
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc				

Associated samples MP24527: FA1175-1F

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

SERIAL DILUTION RESULTS SUMMARY

Login Number: FA1175
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

QC Batch ID: MP24527
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 01/28/13

Metal	FA1193-1 Original	SDL 1:5	%DIF	QC Limits
Aluminum	1090	1050	3.7	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	5690	5840	2.6	0-10
Chromium	1.90	0.00	100.0(a)	0-10
Cobalt				
Copper				
Iron	1580	1600	0.9	0-10
Lead	anr			
Magnesium	3450	3460	0.1	0-10
Manganese	anr			
Molybdenum				
Nickel				
Potassium	1530	1530	0.3	0-10
Selenium				
Silver				
Sodium	43900	42300	3.6	0-10
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc				

Associated samples MP24527: FA1175-1F

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: FA1175
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

QC Batch ID: MP24527
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 01/28/13

Metal	Sample ml	Final ml	FA1193-1 Raw	Corr.**	PS ug/l	Spike ml	Spike ug/ml	Spike ug/l	% Rec	QC Limits
Aluminum	9.8	10	1091	1069.18	3577	0.2	125	2500	100.3	80-120
Antimony	9.8	10	0	0	106.6	0.2	5	100	106.6	80-120
Arsenic	9.8	10	0	0	106.2	0.2	5	100	106.2	80-120
Barium										
Beryllium										
Cadmium	9.8	10	0	0	54.7	0.2	2.5	50	109.4	80-120
Calcium	9.8	10	5693	5579.14	11370	0.2	250	5000	115.8	80-120
Chromium	9.8	10	1.9	1.862	57.4	0.2	2.5	50	111.1	80-120
Cobalt										
Copper										
Iron	9.8	10	1582	1550.36	4749	0.2	150	3000	106.6	80-120
Lead										
Magnesium	9.8	10	3450	3381	8294	0.2	250	5000	98.3	80-120
Manganese										
Molybdenum										
Nickel										
Potassium	9.8	10	1534	1503.32	12090	0.2	500	10000	105.9	80-120
Selenium										
Silver										
Sodium	9.8	10	43910	43031.8	54310	0.2	500	10000	112.8	80-120
Strontium										
Thallium										
Tin										
Titanium										
Vanadium										
Zinc										

Associated samples MP24527: FA1175-1F

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: FA1175
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	GN53938	5.0	0.80	mg/l	250	249	99.5	90-113%
Chloride	GP20863/GN53877	2.0	0.0	mg/l	50	51.1	102.2	90-110%
Fluoride	GP20863/GN53877	0.20	0.0	mg/l	2.5	2.70	108.0	90-110%
Nitrogen, Nitrate	GP20863/GN53877	0.10	0.0	mg/l	2.5	2.61	104.4	90-110%
Nitrogen, Nitrite	GP20863/GN53877	0.10	0.0	mg/l	2.5	2.61	104.4	90-110%
Phosphate, Ortho	GP20861/GN53873	0.10	0.0	mg/l	0.300	0.30	100.7	83-116%
Phosphorus, Total	GP20865/GN53894	0.10	0.0	mg/l	.300	0.27	90.1	81-118%
Solids, Total Dissolved	GN53890	100	16.0	mg/l				
Specific Conductivity	GN53851	1.0	0.0	umhos/cm				
Sulfate	GP20863/GN53877	2.0	0.0	mg/l	50	51.6	103.2	90-110%

Associated Samples:
Batch GN53851: FA1175-1
Batch GN53890: FA1175-1
Batch GN53938: FA1175-1
Batch GP20861: FA1175-1F
Batch GP20863: FA1175-1
Batch GP20865: FA1175-1
(*) Outside of QC limits

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: FA1175
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	GN53938	FA1064-1	mg/l	21.7	21.5	0.9	0-20%
Phosphate, Ortho	GP20861/GN53873	FA1147-10	mg/l	0.020 U	0.0	0.0	0-26%
Phosphorus, Total	GP20865/GN53894	FA1156-1	mg/l	0.13	0.13	1.5	0-22%
Solids, Total Dissolved	GN53890	FA1168-5	mg/l	161	160	0.6	0-5%
Specific Conductivity	GN53851	FA1175-1	umhos/cm	19600	19700	0.2	0-10%
pH	GN53865	FA1175-1	su	2.22	2.22	0.0	0-10%

Associated Samples:
Batch GN53851: FA1175-1
Batch GN53865: FA1175-1
Batch GN53890: FA1175-1
Batch GN53938: FA1175-1
Batch GP20861: FA1175-1F
Batch GP20865: FA1175-1
(*) Outside of QC limits

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: FA1175
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
Alkalinity, Total as CaCO3	GN53938	FA1064-1	mg/l	21.7	250	271	99.6	90-113%
Chloride	GP20863/GN53877	FA1157-2	mg/l	41.3	50	90.5	98.4	90-110%
Fluoride	GP20863/GN53877	FA1157-2	mg/l	0.32	2.5	2.8	99.2	90-110%
Nitrogen, Nitrate	GP20863/GN53877	FA1157-2	mg/l	0.050 U	2.5	2.4	96.0	90-110%
Nitrogen, Nitrite	GP20863/GN53877	FA1157-2	mg/l	0.050 U	2.5	2.7	108.0	90-110%
Phosphate, Ortho	GP20861/GN53873	FA1147-10	mg/l	0.020 U	0.300	0.30	98.4	83-116%
Phosphorus, Total	GP20865/GN53894	FA1156-1	mg/l	0.13	.300	0.60	157.0*(a)	81-118%
Sulfate	GP20863/GN53877	FA1157-2	mg/l	45.8	50	94.0	96.4	90-110%

Associated Samples:
Batch GN53938: FA1175-1
Batch GP20861: FA1175-1F
Batch GP20863: FA1175-1
Batch GP20865: FA1175-1
(*) 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: FA1175
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	GP20863/GN53877	FA1157-2	mg/l	41.3	50	90.3	0.2	
Fluoride	GP20863/GN53877	FA1157-2	mg/l	0.32	2.5	2.8	0.0	
Nitrogen, Nitrate	GP20863/GN53877	FA1157-2	mg/l	0.050 U	2.5	2.4	0.0	
Nitrogen, Nitrite	GP20863/GN53877	FA1157-2	mg/l	0.050 U	2.5	2.7	0.0	
Phosphorus, Total	GP20865/GN53894	FA1156-1	mg/l	0.13	.300	0.591	1.3(a)	22%
Sulfate	GP20863/GN53877	FA1157-2	mg/l	45.8	50	93.7	0.3	

Associated Samples:
Batch GP20863: FA1175-1
Batch GP20865: FA1175-1
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(a) Spike recovery indicates possible matrix interference.

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA1175
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: 313250101.TXT Date Analyzed: 01/25/13 Methods: EPA 300/SW846 9056A
Analyst: AA Run ID: GN53877
Parameters: Chloride,Fluoride,Nitrogen, Nitrate,Sulfate

Time	Sample Description	Dilution Factor	PS Recov	Comments
09:22	GN53877-CCV1	1		
09:38	GN53877-CCB1	1		
09:54	GP20863-MB1	1		
10:10	GP20863-B1	1		
10:57	ZZZZZZ	5		
11:13	ZZZZZZ	10		
11:29	ZZZZZZ	1		
11:45	ZZZZZZ	1		
12:01	ZZZZZZ	1		
12:17	FA1157-2	1		(sample used for QC only; not part of login FA1175)
12:33	GN53877-CCV2	1		
12:49	GN53877-CCB2	1		
13:05	ZZZZZZ	1		
13:20	FA1158-3	1		(sample used for QC only; not part of login FA1175)
13:36	ZZZZZZ	1		
13:52	ZZZZZZ	1		
14:40	FA1175-1	200		
14:56	ZZZZZZ	50		
15:12	ZZZZZZ	25		
15:28	ZZZZZZ	50		
15:43	GN53877-CCV3	1		
15:59	GN53877-CCB3	1		
16:15	ZZZZZZ	50		
16:31	ZZZZZZ	10		
16:47	ZZZZZZ	25		
17:03	GP20863-S1	1		
17:19	GP20863-S2	1		
17:35	GP20863-S3	1		
17:51	GP20863-S4	1		
18:07	ZZZZZZ	25		
18:23	ZZZZZZ	2		
18:54	GN53877-CCV4	1		
19:10	GN53877-CCB4	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA1175
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: 313250101.TXT Date Analyzed: 01/25/13 Methods: EPA 300/SW846 9056A
Analyst: AA Run ID: GN53877
Parameters: Chloride,Fluoride,Nitrogen, Nitrate,Sulfate

Time	Sample Description	Dilution Factor	PS Recov	Comments
19:26	ZZZZZZ	50		
19:42	GN53877-CCV5	1		
19:58	GN53877-CCB5	1		

Refer to raw data for calibration curve and standards.

Instrument QC Summary
Inorganics Analyses

Login Number: FA1175
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: 313250101.TXT Date Analyzed: 01/25/13 Methods: EPA 300/SW846 9056A
Run ID: GN53877 Units: mg/l

Sample Number	Parameter	Result	RL	IDL/MDL	True Value	% Recov.	QC Limits
GN53877-CCV1	Fluoride	2.7	0.20	0.060	2.5	108.0	90-110
GN53877-CCV1	Chloride	51.0	2.0	0.80	50	102.0	90-110
GN53877-CCV1	Nitrogen, Nitrate	2.6	0.10	0.050	2.5	104.0	90-110
GN53877-CCV1	Sulfate	51.2	2.0	0.60	50	102.4	90-110
GN53877-CCB1	Fluoride	0.060 U	0.20	0.060			
GN53877-CCB1	Chloride	0.80 U	2.0	0.80			
GN53877-CCB1	Nitrogen, Nitrate	0.050 U	0.10	0.050			
GN53877-CCB1	Sulfate	0.60 U	2.0	0.60			
GN53877-CCV2	Fluoride	2.7	0.20	0.060	2.5	108.0	90-110
GN53877-CCV2	Chloride	50.9	2.0	0.80	50	101.8	90-110
GN53877-CCV2	Nitrogen, Nitrate	2.6	0.10	0.050	2.5	104.0	90-110
GN53877-CCV2	Sulfate	50.6	2.0	0.60	50	101.2	90-110
GN53877-CCB2	Fluoride	0.060 U	0.20	0.060			
GN53877-CCB2	Chloride	0.80 U	2.0	0.80			
GN53877-CCB2	Nitrogen, Nitrate	0.050 U	0.10	0.050			
GN53877-CCB2	Sulfate	0.60 U	2.0	0.60			
GN53877-CCV3	Fluoride	2.6	0.20	0.060	2.5	104.0	90-110
GN53877-CCV3	Chloride	51.0	2.0	0.80	50	102.0	90-110
GN53877-CCV3	Nitrogen, Nitrate	2.6	0.10	0.050	2.5	104.0	90-110
GN53877-CCV3	Sulfate	49.8	2.0	0.60	50	99.6	90-110
GN53877-CCB3	Fluoride	0.060 U	0.20	0.060			
GN53877-CCB3	Chloride	0.80 U	2.0	0.80			
GN53877-CCB3	Nitrogen, Nitrate	0.050 U	0.10	0.050			
GN53877-CCB3	Sulfate	0.60 U	2.0	0.60			
GN53877-CCV4	Fluoride	2.6	0.20	0.060	2.5	104.0	90-110
GN53877-CCV4	Chloride	50.9	2.0	0.80	50	101.8	90-110
GN53877-CCV4	Nitrogen, Nitrate	2.6	0.10	0.050	2.5	104.0	90-110
GN53877-CCV4	Sulfate	50.0	2.0	0.60	50	100.0	90-110
GN53877-CCB4	Fluoride	0.060 U	0.20	0.060			
GN53877-CCB4	Chloride	0.80 U	2.0	0.80			
GN53877-CCB4	Nitrogen, Nitrate	0.050 U	0.10	0.050			
GN53877-CCB4	Sulfate	0.60 U	2.0	0.60			
GN53877-CCV5	Fluoride	2.6	0.20	0.060	2.5	104.0	90-110
GN53877-CCV5	Chloride	51.0	2.0	0.80	50	102.0	90-110
GN53877-CCV5	Nitrogen, Nitrate	2.6	0.10	0.050	2.5	104.0	90-110
GN53877-CCV5	Sulfate	50.7	2.0	0.60	50	101.4	90-110
GN53877-CCB5	Fluoride	0.060 U	0.20	0.060			
GN53877-CCB5	Chloride	0.80 U	2.0	0.80			
GN53877-CCB5	Nitrogen, Nitrate	0.050 U	0.10	0.050			
GN53877-CCB5	Sulfate	0.60 U	2.0	0.60			

(!) Outside of QC limits

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA1175
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: 313290101.TXT Date Analyzed: 01/29/13 Methods: EPA 300/SW846 9056A
Analyst: AA Run ID: GN53915
Parameters: Fluoride

Time	Sample Description	Dilution Factor	PS Recov	Comments
12:10	GN53915-CCV1	1		
12:26	GN53915-CCB1	1		
12:42	GP20881-MB1	1		
12:58	GP20881-B1	1		
15:53	ZZZZZZ	1		
16:09	GN53915-CCV2	1		
16:25	GN53915-CCB2	1		
16:56	ZZZZZZ	1		
17:12	ZZZZZZ	1		
17:28	FA1250-2	1		(sample used for QC only; not part of login FA1175)
17:44	ZZZZZZ	1		
18:00	FA1250-5	1		(sample used for QC only; not part of login FA1175)
18:16	ZZZZZZ	1		
18:32	ZZZZZZ	2		
18:48	ZZZZZZ	5		
19:04	ZZZZZZ	2		
19:19	GN53915-CCV3	1		
19:35	GN53915-CCB3	1		
19:51	GP20881-S1	1		
20:07	GP20881-S2	1		
20:23	GP20881-S3	1		
20:39	GP20881-S4	1		
20:55	FA1175-1	1000		
21:11	GN53915-CCV4	1		
21:27	GN53915-CCB4	1		

Refer to raw data for calibration curve and standards.

Instrument QC Summary
Inorganics Analyses

Login Number: FA1175
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: 313290101.TXT Date Analyzed: 01/29/13 Methods: EPA 300/SW846 9056A
Run ID: GN53915 Units: mg/l

Sample Number	Parameter	Result	RL	IDL/MDL	True Value	% Recov.	QC Limits
GN53915-CCV1	Fluoride	2.4	0.20	0.060	2.5	96.0	90-110
GN53915-CCB1	Fluoride	0.060 U	0.20	0.060			
GN53915-CCV2	Fluoride	2.4	0.20	0.060	2.5	96.0	90-110
GN53915-CCB2	Fluoride	0.060 U	0.20	0.060			
GN53915-CCV3	Fluoride	2.4	0.20	0.060	2.5	96.0	90-110
GN53915-CCB3	Fluoride	0.060 U	0.20	0.060			
GN53915-CCV4	Fluoride	2.5	0.20	0.060	2.5	100.0	90-110
GN53915-CCB4	Fluoride	0.060 U	0.20	0.060			

(!) Outside of QC limits

Southeast ACCUTEST LABORATORIES

02/18/13

Technical Report for

WSP Environment & Energy

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

Accutest Job Number: FA1415

Sampling Date: 01/31/13

Report to:

WSP Environment & Energy
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Jackson, MO 63755
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ATTN: Tim Huff

Total number of pages in report: **63**

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: FA1415

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

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA1415-1	01/31/13	13:55	TP	02/02/13	AQ	Ground Water	A-34-022
FA1415-1F	01/31/13	13:55	TP	02/02/13	AQ	Groundwater Filtered	A-34-022
FA1415-2	01/31/13	15:30	TP	02/02/13	AQ	Ground Water	DUP01312013
FA1415-2F	01/31/13	15:30	TP	02/02/13	AQ	Groundwater Filtered	DUP01312013

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: WSP Environment & Energy **Job No:** FA1415

Site: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID **Report Date** 2/18/2013 2:56:05 PM

2 Sample(s) were collected on 01/31/2013 and were received at Accutest SE on 02/02/2013 properly preserved, at 3.2 Deg. C and intact. These Samples received an Accutest job number of FA1415. 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:** MP24565

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) FA1415-1FDUP, FA1415-1FMSD, FA1415-1FPS, FA1415-1FSDL were used as the QC samples for metals.

Sample(s) FA1415-1F has compounds reported with “E” qualifiers indicating estimated value exceeding calibration range.

Matrix Spike Recovery(s) for Antimony, Arsenic, Selenium are outside control limits. Spike recovery indicates possible matrix interference.

Matrix Spike Duplicate Recovery(s) for Antimony are outside control limits. Spike recovery indicates possible matrix interference.

Matrix Spike 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.

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, Chromium, Iron, Magnesium, Potassium, Sodium are outside control limits for sample MP24565-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

MP24565-SD1 for Iron: Serial dilution indicates possible matrix interference.

MP24565-SD1 for Magnesium: Serial dilution indicates possible matrix interference.

MP24565-SD1 for Sodium: Serial dilution indicates possible matrix interference.

MP24565-SD1 for Chromium: Serial dilution indicates possible matrix interference.

MP24565-SD1 for Calcium: Serial dilution indicates possible matrix interference.

MP24565-SD1 for Cadmium: Serial dilution indicates possible matrix interference.

MP24565-SD1 for Aluminum: Serial dilution indicates possible matrix interference.

MP24565-SD1 for Potassium: Serial dilution indicates possible matrix interference.

MP24565-PS1 for Sodium: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP24565-PS1 for Selenium: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP24565-PS1 for Potassium: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP24565-PS1 for Magnesium: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP24565-PS1 for Iron: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP24565-PS1 for Cadmium: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP24565-PS1 for Antimony: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP24565-PS1 for Aluminum: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP24565-PS1 for Calcium: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

Metals By Method SW846 6010C

Matrix: AQ **Batch ID:** MP24565

MP24565-PS1 for Chromium: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

FA1415-2F for Sodium: Elevated reporting limit(s) due to matrix interference.

FA1415-1F for Iron: Elevated reporting limit(s) due to matrix interference.

FA1415-1F for Sodium: Elevated reporting limit(s) due to matrix interference. Above linear range.

FA1415-1F for Potassium: Elevated reporting limit(s) due to matrix interference.

FA1415-1F for Chromium: Elevated reporting limit(s) due to matrix interference.

FA1415-1F for Calcium: Elevated reporting limit(s) due to matrix interference.

FA1415-1F for Cadmium: Elevated reporting limit(s) due to matrix interference.

FA1415-1F for Arsenic: Elevated reporting limit(s) due to matrix interference.

FA1415-1F for Aluminum: Elevated reporting limit(s) due to matrix interference.

FA1415-1F for Selenium: Elevated reporting limit(s) due to matrix interference.

FA1415-1F for Antimony: Elevated reporting limit(s) due to matrix interference.

FA1415-2F for Calcium: Elevated reporting limit(s) due to matrix interference.

FA1415-2F for Cadmium: Elevated reporting limit(s) due to matrix interference.

FA1415-2F for Arsenic: Elevated reporting limit(s) due to matrix interference.

FA1415-2F for Antimony: Elevated reporting limit(s) due to matrix interference.

FA1415-2F for Aluminum: Elevated reporting limit(s) due to matrix interference.

FA1415-2F for Iron: Elevated reporting limit(s) due to matrix interference.

FA1415-1F for Magnesium: Elevated reporting limit(s) due to matrix interference.

FA1415-2F for Magnesium: Elevated reporting limit(s) due to matrix interference.

FA1415-2F for Potassium: Elevated reporting limit(s) due to matrix interference.

FA1415-2F for Selenium: Elevated reporting limit(s) due to matrix interference.

FA1415-2F for Chromium: Elevated reporting limit(s) due to matrix interference.

Wet Chemistry By Method EPA 120.1

Matrix: AQ **Batch ID:** GN53969

All method blanks for this batch meet method specific criteria.

Sample(s) FA1415-1DUP was used as the QC sample for Specific Conductivity.

The following samples were run outside of holding time for method EPA 120.1: FA1415-1, FA1415-2. Sample received outside the holding time.

Wet Chemistry By Method EPA 300/SW846 9056A

Matrix: AQ **Batch ID:** GP20907

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) FA1395-1MS, FA1395-1MSD were used as the QC samples for Chloride, Nitrogen, Nitrate, Sulfate, Fluoride.

Matrix Spike Recovery(s)/Matrix Spike Duplicate 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.

FA1415-1 for Chloride: Dilution required due to matrix interference.

FA1415-1 for Nitrogen, Nitrate: Sample received near the end of hold. Dilution required due to matrix interference.

FA1415-2 for Chloride: Dilution required due to matrix interference.

FA1415-2 for Nitrogen, Nitrate: Sample received near the end of hold. Dilution required due to matrix interference.

Wet Chemistry By Method EPA 365.3

Matrix: AQ **Batch ID:** GP20898

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) FA1415-1FDUP, FA1415-1FMS were used as the QC samples for Phosphate, Ortho.

GP20898-S1 for Phosphate, Ortho: 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:** GP20911

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA1229-1DUP, FA1229-1MS, FA1229-1MSD were used as the QC samples for Phosphorus, Total.

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

Matrix: AQ **Batch ID:** GN53968

Sample(s) FA1415-1DUP was used as the QC samples for pH.

FA1415-1 for pH: Field analysis required. Received out of hold time and analyzed by request.

FA1415-2 for pH: Field analysis required. Received out of hold time and analyzed by request.

Wet Chemistry By Method SM19 2320B

Matrix: AQ **Batch ID:** GN54110

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA1465-1DUP, FA1465-1MS were used as the QC samples for Alkalinity, Total as CaCO3.

Wet Chemistry By Method SM19 2540C

Matrix: AQ **Batch ID:** GN54033

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA1465-3DUP 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:

_____ Date: February 18, 2013

Kim Benham, Client Services (signature on file)

Summary of Hits

Job Number: FA1415
Account: WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID
Collected: 01/31/13

3

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA1415-1	**A-34-022**					
Fluoride		2180	100	30	mg/l	EPA 300/SW846 9056A
Phosphorus, Total		1430	500	140	mg/l	EPA 365.3
Solids, Total Dissolved		38800	2000	200	mg/l	SM19 2540C
Specific Conductivity [a]		20900	1.0	1.0	umhos/cm	EPA 120.1
Sulfate		20900	1000	300	mg/l	EPA 300/SW846 9056A
pH [b]		2.19			su	SM 4500H B/SW 9040C
FA1415-1F	**A-34-022**					
Aluminum [c]		1860000	2000	150	ug/l	SW846 6010C
Arsenic [c]		240	100	25	ug/l	SW846 6010C
Cadmium [c]		3540	50	5.0	ug/l	SW846 6010C
Calcium [c]		455000	10000	500	ug/l	SW846 6010C
Chromium [c]		3770	100	20	ug/l	SW846 6010C
Iron [c]		2420000	3000	290	ug/l	SW846 6010C
Magnesium [c]		1450000	50000	740	ug/l	SW846 6010C
Potassium [c]		506000	100000	2000	ug/l	SW846 6010C
Sodium [d]		855000 E	100000	5000	ug/l	SW846 6010C
Phosphate, Ortho		1830	500	95	mg/l	EPA 365.3
FA1415-2	**DUP01312013**					
Fluoride		2350	100	30	mg/l	EPA 300/SW846 9056A
Phosphorus, Total		1370	500	140	mg/l	EPA 365.3
Solids, Total Dissolved		35400	2000	200	mg/l	SM19 2540C
Specific Conductivity [a]		20100	1.0	1.0	umhos/cm	EPA 120.1
Sulfate		17400	1000	300	mg/l	EPA 300/SW846 9056A
pH [b]		2.11			su	SM 4500H B/SW 9040C
FA1415-2F	**DUP01312013**					
Aluminum [c]		1750000	2000	150	ug/l	SW846 6010C
Arsenic [c]		229	100	25	ug/l	SW846 6010C
Cadmium [c]		3300	50	5.0	ug/l	SW846 6010C
Calcium [c]		418000	10000	500	ug/l	SW846 6010C
Chromium [c]		3520	100	20	ug/l	SW846 6010C
Iron [c]		2230000	3000	290	ug/l	SW846 6010C
Magnesium [c]		1360000	50000	740	ug/l	SW846 6010C
Potassium [c]		469000	100000	2000	ug/l	SW846 6010C
Sodium [c]		794000	100000	5000	ug/l	SW846 6010C
Phosphate, Ortho		1680	500	95	mg/l	EPA 365.3

(a) Sample received outside the holding time.

Summary of Hits

Job Number: FA1415
Account: WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID
Collected: 01/31/13

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method

(b) Field analysis required. Received out of hold time and analyzed by request.
(c) Elevated reporting limit(s) due to matrix interference.
(d) Elevated reporting limit(s) due to matrix interference. Above linear range.

Southeast ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	A-34-022		
Lab Sample ID:	FA1415-1	**Date Sampled:**	01/31/13
Matrix:	AQ - Ground Water	**Date Received:**	02/02/13
		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
Alkalinity, Bicarbonate as CaC	5.0 U	5.0	5.0	mg/l	1	02/12/13 12:10	LE	SM18 4500CO2D
Alkalinity, Carbonate	5.0 U	5.0	5.0	mg/l	1	02/12/13 12:10	LE	SM18 4500CO2D
Alkalinity, Total as CaCO3	0.60 U	5.0	0.60	mg/l	1	02/12/13 12:10	AC	SM19 2320B
Chloride [a]	160 U	400	160	mg/l	200	02/02/13 15:39	AA	EPA 300/SW846 9056A
Fluoride	2180	100	30	mg/l	500	02/04/13 12:45	AA	EPA 300/SW846 9056A
Nitrogen, Nitrate [b]	10 U	20	10	mg/l	200	02/02/13 15:39	AA	EPA 300/SW846 9056A
Phosphorus, Total	1430	500	140	mg/l	5000	02/05/13 08:20	LE	EPA 365.3
Solids, Total Dissolved	38800	2000	200	mg/l	20	02/07/13	MG	SM19 2540C
Specific Conductivity [c]	20900	1.0	1.0	umhos/cm	1	02/02/13 14:55	AC	EPA 120.1
Sulfate	20900	1000	300	mg/l	500	02/04/13 12:45	AA	EPA 300/SW846 9056A
pH [d]	2.19			su	1	02/02/13 15:00	JA	SM 4500H B/SW 9040C

(a) Dilution required due to matrix interference.
(b) Sample received near the end of hold. 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-34-022		
Lab Sample ID:	FA1415-1F	**Date Sampled:**	01/31/13
Matrix:	AQ - Groundwater Filtered	**Date Received:**	02/02/13
		Percent Solids:	n/a
Project:	Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum [a]	1860000	2000	150	ug/l	10	02/05/13	02/06/13	LM	SW846 6010C [1]	SW846 3010A [2]
Antimony [a]	13 U	60	13	ug/l	10	02/05/13	02/06/13	LM	SW846 6010C [1]	SW846 3010A [2]
Arsenic [a]	240	100	25	ug/l	10	02/05/13	02/06/13	LM	SW846 6010C [1]	SW846 3010A [2]
Cadmium [a]	3540	50	5.0	ug/l	10	02/05/13	02/06/13	LM	SW846 6010C [1]	SW846 3010A [2]
Calcium [a]	455000	10000	500	ug/l	10	02/05/13	02/06/13	LM	SW846 6010C [1]	SW846 3010A [2]
Chromium [a]	3770	100	20	ug/l	10	02/05/13	02/06/13	LM	SW846 6010C [1]	SW846 3010A [2]
Iron [a]	2420000	3000	290	ug/l	10	02/05/13	02/06/13	LM	SW846 6010C [1]	SW846 3010A [2]
Magnesium [a]	1450000	50000	740	ug/l	10	02/05/13	02/06/13	LM	SW846 6010C [1]	SW846 3010A [2]
Potassium [a]	506000	100000	2000	ug/l	10	02/05/13	02/06/13	LM	SW846 6010C [1]	SW846 3010A [2]
Selenium [a]	20 U	100	20	ug/l	10	02/05/13	02/06/13	LM	SW846 6010C [1]	SW846 3010A [2]
Sodium [b]	855000 E	100000	5000	ug/l	10	02/05/13	02/06/13	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10515
(2) Prep QC Batch: MP24565

(a) Elevated reporting limit(s) due to matrix interference.
(b) Elevated reporting limit(s) due to matrix interference. Above linear range.

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:	FA1415-1F	**Date Sampled:**	01/31/13
Matrix:	AQ - Groundwater Filtered	**Date Received:**	02/02/13
		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	1830	500	95	mg/l	5000	02/02/13 12:30	JA	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:	DUP01312013		
Lab Sample ID:	FA1415-2	**Date Sampled:**	01/31/13
Matrix:	AQ - Ground Water	**Date Received:**	02/02/13
		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
Alkalinity, Bicarbonate as CaC	5.0 U	5.0	5.0	mg/l	1	02/12/13 12:10	LE	SM18 4500CO2D
Alkalinity, Carbonate	5.0 U	5.0	5.0	mg/l	1	02/12/13 12:10	LE	SM18 4500CO2D
Alkalinity, Total as CaCO3	0.60 U	5.0	0.60	mg/l	1	02/12/13 12:10	AC	SM19 2320B
Chloride [a]	160 U	400	160	mg/l	200	02/02/13 15:55	AA	EPA 300/SW846 9056A
Fluoride	2350	100	30	mg/l	500	02/04/13 13:01	AA	EPA 300/SW846 9056A
Nitrogen, Nitrate [b]	10 U	20	10	mg/l	200	02/02/13 15:55	AA	EPA 300/SW846 9056A
Phosphorus, Total	1370	500	140	mg/l	5000	02/05/13 08:20	LE	EPA 365.3
Solids, Total Dissolved	35400	2000	200	mg/l	20	02/07/13	MG	SM19 2540C
Specific Conductivity [c]	20100	1.0	1.0	umhos/cm	1	02/02/13 14:55	AC	EPA 120.1
Sulfate	17400	1000	300	mg/l	500	02/04/13 13:01	AA	EPA 300/SW846 9056A
pH [d]	2.11			su	1	02/02/13 15:00	JA	SM 4500H B/SW 9040C

(a) Dilution required due to matrix interference.
(b) Sample received near the end of hold. 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:	DUP01312013		
Lab Sample ID:	FA1415-2F	**Date Sampled:**	01/31/13
Matrix:	AQ - Groundwater Filtered	**Date Received:**	02/02/13
		Percent Solids:	n/a
Project:	Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum [a]	1750000	2000	150	ug/l	10	02/05/13	02/06/13	LM	SW846 6010C [1]	SW846 3010A [2]
Antimony [a]	13 U	60	13	ug/l	10	02/05/13	02/06/13	LM	SW846 6010C [1]	SW846 3010A [2]
Arsenic [a]	229	100	25	ug/l	10	02/05/13	02/06/13	LM	SW846 6010C [1]	SW846 3010A [2]
Cadmium [a]	3300	50	5.0	ug/l	10	02/05/13	02/06/13	LM	SW846 6010C [1]	SW846 3010A [2]
Calcium [a]	418000	10000	500	ug/l	10	02/05/13	02/06/13	LM	SW846 6010C [1]	SW846 3010A [2]
Chromium [a]	3520	100	20	ug/l	10	02/05/13	02/06/13	LM	SW846 6010C [1]	SW846 3010A [2]
Iron [a]	2230000	3000	290	ug/l	10	02/05/13	02/06/13	LM	SW846 6010C [1]	SW846 3010A [2]
Magnesium [a]	1360000	50000	740	ug/l	10	02/05/13	02/06/13	LM	SW846 6010C [1]	SW846 3010A [2]
Potassium [a]	469000	100000	2000	ug/l	10	02/05/13	02/06/13	LM	SW846 6010C [1]	SW846 3010A [2]
Selenium [a]	20 U	100	20	ug/l	10	02/05/13	02/06/13	LM	SW846 6010C [1]	SW846 3010A [2]
Sodium [a]	794000	100000	5000	ug/l	10	02/05/13	02/06/13	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10515
(2) Prep QC Batch: MP24565

(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:	DUP01312013		
Lab Sample ID:	FA1415-2F	**Date Sampled:**	01/31/13
Matrix:	AQ - Groundwater Filtered	**Date Received:**	02/02/13
		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	1680	500	95	mg/l	5000	02/02/13 12:30	JA	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 # FA1415 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#: 573-217-6759
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	OTHER	NONE	HCl	NaOH	HNO3	H2SO4	NaOH+ZnAc	DI WATER	HNO3	SEE ATTACHED	LAB USE ONLY
1	A-34-022	013113	1355	TP	GW	4		X			X	X				X	
2	DUP01312013	013113	1530	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 [signature]	020113 1630	2 FP	3 FP 020213	930	4 [signature] ACSP
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: 3.2

FA1415: Chain of Custody
Page 1 of 4

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: FA1415 CLIENT: WSP PROJECT: Agrium

DATE/TIME RECEIVED: 02-02-13 930 (MM/DD/YY 24:00) NIMBER OF COOLERS RECEIVED: 1

METHOD OF DELIVERY: FEDEX UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 8013 5708 1282

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: 2.8
- [ ] 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)
- [x] 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 Analysis wrote on COC

TECHNICIAN SIGNATURE/DATE [signature] 0202-13 REVIEWER SIGNATURE/DATE [signature] 02/02/13

NF 12/10 receipt confirmation 122910.xls

5.1

5

FA1415: Chain of Custody

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Metals and O-Phos - Field Filtered

Note: A-34-022 High Phosphate

Table 5-4

Groundwater Sampling Analytical Methods
Nu-West CPO Facility
Soda Springs, Idaho

Analytes	Test Method (b)	Method Detection Limit (mg/l)	Laboratory Reporting Limit (mg/l)	EPA Maximum Contaminant Level (c) (mg/l)	Idaho Groundwater Standard (d) (mg/l)	Sample Criteria (e) Container	Quantity (ml)	Preservative	Holding Time
Dissolved Metals (mg/l)									
Aluminum	EPA 200.8 or SW-846 6010C	0.015	0.2	NS	NS	P	500	4°C; HNO_3 <2 S.U.	6 months
Antimony	EPA 200.8 or SW-846 6010C	0.0045	0.006	0.006	0.006	P	500	4°C; HNO_3 <2 S.U.	6 months
Arsenic	EPA 200.8 or SW-846 6010C	0.0054	0.01	0.01	0.01	P	500	4°C; HNO_3 <2 S.U.	6 months
Cadmium	EPA 200.8 or SW-846 6010C	0.001	0.005	0.005	0.005	P	500	4°C; HNO_3 <2 S.U.	6 months
Calcium	EPA 200.8 or SW-846 6010C	0.1	1	NS	NS	P	500	4°C; HNO_3 <2 S.U.	6 months
Chromium	EPA 200.8 or SW-846 6010C	0.002	0.01	0.1	0.1	P	500	4°C; HNO_3 <2 S.U.	6 months
Iron	EPA 200.8 or SW-846 6010C	0.029	0.3	NS	NS	P	500	4°C; HNO_3 <2 S.U.	6 months
Magnesium	EPA 200.8 or SW-846 6010C	0.1	5	NS	NS	P	500	4°C; HNO_3 <2 S.U.	6 months
Potassium	EPA 200.8 or SW-846 6010C	0.1	10	NS	NS	P	500	4°C; HNO_3 <2 S.U.	6 months
Sodium	EPA 200.8 or SW-846 6010C	1	20	NS	NS	P	500	4°C; HNO_3 <2 S.U.	6 months
General Chemistry (mg/l)									
Chloride	EPA 300	1	2	NS	250	P	250	4°C	28 days
Fluoride	EPA 300	0.1	0.2	4	4	P	500	4°C	28 days
Nitrate as N	EPA 300	0.05	0.1	10	10	P, G	1,000	4°C; H_2SO4 <2 S.U.	28 days
Orthophosphate	EPA 365.1	0.009	0.1	NS	NS	P (f)	500	4°C	48 hours
Total Phosphorous	EPA 365.3	0.009	0.1	NS	NS	P	100	4°C; H_2SO4 <2 S.U.	28 days
Sulfate	EPA 300	1	2	NS	NS	P	500	4°C	28 days
TDS	SM2540C	10	100	NS	500	P	100	4°C	7 days
pH (S.U.)	SM4500 H+B	0.01	0.01	NS	6.5 to 8.5	P	100	4°C	Immediate
Alkalinity (bicarbonate and carbonate)	SM18 4500CO2D	5	5	NS	NS	P	1000	4°C	14 days
Specific Conductance	EPA 120.1	NA	1	NS	NS	P	1000	4°C	28 days

a/ mg/l = milligrams per liter; NS = not applicable or standard not developed; ml = milliliter; P = plastic; G = glass; oC = degrees Celsius; HNO3 = nitric acid; H2SO4 = sulfuric acid; NaOH+Zn acetate = sodium hydroxide plus zinc acetate; HCl = hydrochloric acid; S.U. = standard units; TDS = total dissolved solids; µg/l = micrograms per liter; pCi/l = picoCuries per liter; TDS will be analyzed for groundwater only.

b/ SW-846 source: EPA. Test Methods for Evaluating Solid Waste, Physical/Chemical Methods (1986, as updated and revised).
SM source: American Public Health Association. Standard Methods for Examination of Water and Wastewater (1998, as updated and revised).
EPA sources:
EPA. Methods for Chemical Analysis of Water and Waste. EPA 600/4-70-020 (1983, as updated and revised).
EPA. EPA Prescribed Procedures for Measurement of Radioactivity in Drinking Water. EPA 600 4-80-032 (1980, as updated and revised).

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/ Accutest Laboratories.

f/ Filter within 15 minutes of sampling.

Job Change Order: FA1415_2/6/2013

Requested Date:	2/6/2013	**Received Date:**	2/2/2013
Account Name:	WSP Environment & Energy	**Due Date:**	2/18/2013
Project Description:	Nu-West Conda Phosphate Operations, 3010	**Deliverable:**	REDT1
CSR:	AC	**TAT (Days):**	12

Sample #:
FA1415-1F, 2F

Change: Please add selenium to the metals list.

Above Changes Tim Huff **Date:** 2/6/2013

To Client: This Change Order is confirmation of the revisions, previously discussed with the Accutest Client Service Representative.

Page 1 of 1

FA1415: Chain of Custody
Page 4 of 4

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: FA1415
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA020513M1.ICP Date Analyzed: 02/05/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10512
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
09:48	MA10512-STD1	1		STDA
09:52	MA10512-STD2	1		STDB
09:56	MA10512-STD3	1		STDC
09:59	MA10512-STD4	1		STDD
10:03	MA10512-HSTD1	1		
10:09	MA10512-ICV1	1		
10:17	MA10512-ICB1	1		
10:28	MA10512-CRIA1	1		
10:38	MA10512-ICSA1	1		
10:49	MA10512-ICSAB1	1		
10:58	MA10512-CCV1	1		
11:05	MA10512-CCB1	1		
11:12	MP24566-MB1	1		
11:17	MP24566-B1	1		
11:21	FA1374-4	1		(sample used for QC only; not part of login FA1415)
11:25	MP24566-D1	1		
11:30	MP24566-SD1	5		
11:34	MP24566-PS1	1		
11:38	MP24566-S1	1		
11:43	MP24566-S2	1		
11:47	ZZZZZZ	1		
11:52	ZZZZZZ	1		
11:56	MA10512-CCV2	1		
12:00	MA10512-CCB2	1		
12:28	MA10512-CCV3	1		
12:34	MA10512-CCB3	1		
12:38	ZZZZZZ	1		
12:43	ZZZZZZ	1		
12:47	ZZZZZZ	1		
12:52	ZZZZZZ	1		
12:56	ZZZZZZ	1		
13:01	ZZZZZZ	1		
13:06	MP24565-MB1	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA1415
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA020513M1.ICP Date Analyzed: 02/05/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10512
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

	Time	Sample Description	Dilution Factor	PS Recov	Comments
	13:10	MP24565-B1	1		
---------->	Last reportable sample/prep for job FA1415				
	13:25	MA10512-CCV4	1		
	13:29	MA10512-CCB4	1		
	14:04	ZZZZZZ	1		
	14:09	ZZZZZZ	1		
	14:13	ZZZZZZ	1		
	14:18	ZZZZZZ	1		
	14:22	MA10512-CCV5	1		
	14:26	MA10512-CCB5	1		
	14:40	FA1136-2	5		(sample used for QC only; not part of login FA1415)
	14:45	MP24530-D1	5		
	14:49	MP24530-S1	5		
	14:53	MP24530-S2	5		
	14:58	MP24530-PS1	5		
	15:02	MP24530-SD1	25		
	15:07	FA1374-4	5		(sample used for QC only; not part of login FA1415)
	15:11	MP24566-D1	5		
	15:15	MA10512-CCV6	1		
	15:20	MA10512-CCB6	1		
	15:46	MA10512-CCV7	1		
	15:52	MA10512-CCB7	1		
	15:56	MA10512-CCB8	1		
	16:02	MP24566-S1	5		
	16:07	MP24566-S2	5		
	16:11	MP24566-PS1	5		
	16:16	MP24566-SD1	25		
	16:20	ZZZZZZ	1		
	16:25	ZZZZZZ	5		
	16:29	ZZZZZZ	10		
	16:34	ZZZZZZ	10		
	16:38	ZZZZZZ	5		
	16:43	ZZZZZZ	5		
	16:48	MA10512-CCV8	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA1415
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA020513M1.ICP Date Analyzed: 02/05/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10512
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
16:52	MA10512-CCB9	1		
16:56	ZZZZZZ	10		
17:01	ZZZZZZ	10		
17:10	MA10512-CRIA2	1		
17:15	MA10512-ICSA2	1		
17:20	MA10512-ICSAB2	1		
17:24	MA10512-CCV9	1		
17:28	MA10512-CCB10	1		

----------> Last reportable CCB for job FA1415
Refer to raw data for calibration curve and standards.

INTERNAL STANDARD SUMMARY

Login Number: FA1415
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA020513M1.ICP Date Analyzed: 02/05/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10512
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
09:48	MA10512-STD1	1796	16497	6130	1047
09:52	MA10512-STD2	1760	16132	6097	972
09:56	MA10512-STD3	1688	15533	6030	875
09:59	MA10512-STD4	1629	15085	5914	811
10:03	MA10512-HSTD1	1634	14856	5857	817
10:09	MA10512-ICV1	1678	15202	5918	877
10:17	MA10512-ICB1	1777 R	16300 R	6075 R	1040 R
10:28	MA10512-CRIA1	1734	15957	5974	975
10:38	MA10512-ICSA1	1536	13445	5503	752
10:49	MA10512-ICSAB1	1533	13546	5562	745
10:58	MA10512-CCV1	1683	15234	5893	872
11:05	MA10512-CCB1	1751	15669	5883	1038
11:12	MP24566-MB1	1735	15667	5894	1035
11:17	MP24566-B1	1658	14856	5856	911
11:21	FA1374-4				885
11:25	MP24566-D1				880
11:30	MP24566-SD1				974
11:34	MP24566-PS1				877
11:38	MP24566-S1				832
11:43	MP24566-S2				836
11:47	ZZZZZZ	2081	18002	7080	944
11:52	ZZZZZZ	2872 !	25301 !	10120 !	939
11:56	MA10512-CCV2	1651	14567	5824	878
12:00	MA10512-CCB2	1724	15436	5900	1032
12:28	MA10512-CCV3	1622	14405	5816	867
12:34	MA10512-CCB3	1704	14710	5695	1037
12:38	ZZZZZZ	1604	13959	6123	655
12:43	ZZZZZZ	1600	14098	6170	654
12:47	ZZZZZZ	1781	15759	6860	661
12:52	ZZZZZZ	1772	15408	6697	685
12:56	ZZZZZZ	1649	14412	6344	644
13:01	ZZZZZZ	1537	13588	5945	636
13:06	MP24565-MB1	1698	15298	5963	1028

INTERNAL STANDARD SUMMARY

Login Number: FA1415
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA020513M1.ICP Date Analyzed: 02/05/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10512
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	MP24565-B1	1622	14038	5671	900
13:25	MA10512-CCV4	1590	14022	5741	854
13:29	MA10512-CCB4	1691	14838	5798	1033
14:04	ZZZZZZ	1558	13833	5743	914
14:09	ZZZZZZ	1608	14048	5713	963
14:13	ZZZZZZ	1628	14095	5665	987
14:18	ZZZZZZ	1600	13986	5677	950
14:22	MA10512-CCV5	1583	13809	5623	862
14:26	MA10512-CCB5	1667	14348	5634	1034
14:40	FA1136-2	1870	16923	6883	934
14:45	MP24530-D1	1861	16421	6672	956
14:49	MP24530-S1	1851	15966	6550	928
14:53	MP24530-S2	1881	16377	6755	925
14:58	MP24530-PS1	1906	16809	6898	940
15:02	MP24530-SD1	1703	15194	6086	1004
15:07	FA1374-4	2004	17352	7068	965
15:11	MP24566-D1	2040	17646	7226	958
15:15	MA10512-CCV6	1545	13569	5654	862
15:20	MA10512-CCB6	1627	14506	5797	1017
15:46	MA10512-CCV7	1574	14004	5740	863
15:52	MA10512-CCB7	1656	14337	5642	1039
15:56	MA10512-CCB8	1645	14180	5587	1040
16:02	MP24566-S1	2091	18271	7512	922
16:07	MP24566-S2	2012	17796	7257	929
16:11	MP24566-PS1	2024	17586	7093	958
16:16	MP24566-SD1	1736	14921	5890	1023
16:20	ZZZZZZ	1958	16848	6824	925
16:25	ZZZZZZ	1892	16698	6664	972
16:29	ZZZZZZ	1579	13938	5730	874
16:34	ZZZZZZ	1575	13650	5611	876
16:38	ZZZZZZ	1587	13528	5643	814
16:43	ZZZZZZ	1596	13708	5755	835
16:48	MA10512-CCV8	1560	13748	5644	863

INTERNAL STANDARD SUMMARY

Login Number: FA1415
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA020513M1.ICP Date Analyzed: 02/05/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10512
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
16:52	MA10512-CCB9	1654	14689	5744	1026
16:56	ZZZZZZ	1590	13762	5612	885
17:01	ZZZZZZ	1555	13157	5441	878
17:10	MA10512-CRIA2	1628	14070	5665	987
17:15	MA10512-ICSA2	1458	12306	5291	751
17:20	MA10512-ICSAB2	1441	12015	5185	745
17:24	MA10512-CCV9	1567	13367	5498	873
17:28	MA10512-CCB10	1662	14384	5649	1037

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: FA1415
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA020513M1.ICP Date Analyzed: 02/05/13 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA10512 Units: ug/l

Time:			10:17		11:05		12:00		12:34	
Sample ID:			ICB1		CCB1		CCB2		CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	15	2.6	<200	2.3	<200	9.4	<200	2.6	<200
Antimony	6.0	1.3	1.0	<6.0	0.60	<6.0	1.0	<6.0	0.70	<6.0
Arsenic	10	1.6	0.60	<10	-0.10	<10	0.60	<10	0.0	<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	0.20	<5.0
Calcium	1000	50	-0.30	<1000	8.3	<1000	8.3	<1000	-98	<1000
Chromium	10	1.8	0.20	<10	0.20	<10	0.30	<10	0.80	<10
Cobalt	50	.5	anr							
Copper	25	1	anr							
Iron	300	29	-3.8	<300	3.2	<300	5.5	<300	8.2	<300
Lead	5.0	1.1	anr							
Magnesium	5000	74	-5.0	<5000	-14	<5000	-16	<5000	-1.1	<5000
Manganese	15	.7	anr							
Molybdenum	50	.6								
Nickel	40	.5	anr							
Potassium	10000	200	1.2	<10000	-17	<10000	-0.50	<10000	-5.4	<10000
Selenium	10	2	-1.2	<10	-0.90	<10	-0.50	<10	1.5	<10
Silver	10	.5	anr							
Sodium	10000	500	-2.6	<10000	-5.3	<10000	-2.7	<10000	10.7	<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: FA1415
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA020513M1.ICP Date Analyzed: 02/05/13 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA10512 Units: ug/l

Time:			13:29		14:26		15:20		15:52	
Sample ID:			CCB4		CCB5		CCB6		CCB7	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	15	16.4	<200	5.5	<200	6.2	<200	-34	<200
Antimony	6.0	1.3	0.0	<6.0	-0.20	<6.0	-0.10	<6.0	-0.30	<6.0
Arsenic	10	1.6	0.50	<10	0.80	<10	-0.20	<10	0.50	<10
Barium	200	1	anr							
Beryllium	4.0	.5	anr							
Cadmium	5.0	.5	0.20	<5.0	0.10	<5.0	0.0	<5.0	0.0	<5.0
Calcium	1000	50	-96	<1000	-98	<1000	-99	<1000	-1.6	<1000
Chromium	10	1.8	0.70	<10	0.70	<10	0.20	<10	0.40	<10
Cobalt	50	.5	anr							
Copper	25	1	anr							
Iron	300	29	38.2	<300	16.7	<300	11.1	<300	10.8	<300
Lead	5.0	1.1	anr							
Magnesium	5000	74	7.6	<5000	-4.8	<5000	-8.5	<5000	7.4	<5000
Manganese	15	.7	anr							
Molybdenum	50	.6								
Nickel	40	.5	anr							
Potassium	10000	200	123	<10000	105	<10000	64.1	<10000	17.7	<10000
Selenium	10	2	-1.6	<10	0.20	<10	-0.60	<10	0.50	<10
Silver	10	.5	anr							
Sodium	10000	500	71.1	<10000	125	<10000	104	<10000	-21	<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: FA1415
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA020513M1.ICP Date Analyzed: 02/05/13 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA10512 Units: ug/l

Time:			15:56		16:52		17:28	
Sample ID:			CCB8		CCB9		CCB10	
Metal	RL	IDL	raw	final	raw	final	raw	final
Aluminum	200	15	-32	<200	-37	<200	-32	<200
Antimony	6.0	1.3	-0.50	<6.0	0.50	<6.0	-0.20	<6.0
Arsenic	10	1.6	-0.60	<10	0.20	<10	-0.10	<10
Barium	200	1	anr					
Beryllium	4.0	.5	anr					
Cadmium	5.0	.5	0.0	<5.0	0.20	<5.0	0.10	<5.0
Calcium	1000	50	-0.50	<1000	-3.7	<1000	-3.7	<1000
Chromium	10	1.8	0.20	<10	0.40	<10	0.10	<10
Cobalt	50	.5	anr					
Copper	25	1	anr					
Iron	300	29	3.2	<300	10.7	<300	15.2	<300
Lead	5.0	1.1	anr					
Magnesium	5000	74	21.8	<5000	0.60	<5000	26.6	<5000
Manganese	15	.7	anr					
Molybdenum	50	.6						
Nickel	40	.5	anr					
Potassium	10000	200	-6.1	<10000	-8.7	<10000	-13	<10000
Selenium	10	2	-1.1	<10	1.0	<10	-0.20	<10
Silver	10	.5	anr					
Sodium	10000	500	-33	<10000	-42	<10000	-52	<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

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA1415
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA020513M1.ICP Date Analyzed: 02/05/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA10512 Units: ug/l

Time:		10:09			10:58			11:56	
Sample ID:	ICV	ICV1		CCV	CCV1		CCV	CCV2	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	40500	101.3	40000	39900	99.8	40000	39400	98.5
Antimony	2000	2030	101.5	2000	1980	99.0	2000	2080	104.0
Arsenic	2000	1990	99.5	2000	1990	99.5	2000	2080	104.0
Barium	anr								
Beryllium	anr								
Cadmium	2000	2050	102.5	2000	2030	101.5	2000	2110	105.5
Calcium	40000	42600	106.5	40000	40300	100.8	40000	40800	102.0
Chromium	2000	2110	105.5	2000	2060	103.0	2000	2260	113.0*(a
Cobalt	anr								
Copper	anr								
Iron	40000	43000	107.5	40000	41300	103.3	40000	43000	107.5
Lead	anr								
Magnesium	40000	41500	103.8	40000	40200	100.5	40000	40500	101.3
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium	40000	41700	104.3	40000	39600	99.0	40000	40000	100.0
Selenium	2000	2060	103.0	2000	1980	99.0	2000	2110	105.5
Silver	anr								
Sodium	40000	38100	95.3	40000	39500	98.8	40000	40100	100.3
Strontium									
Thallium	anr								
Tin	anr								
Titanium									
Vanadium	anr								
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested
(a) No samples for Cr_ reported in the area bracketed by this QC.

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA1415
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA020513M1.ICP Date Analyzed: 02/05/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA10512 Units: ug/l

Time:		12:28			13:25			14:22	
Sample ID:	CCV	CCV3		CCV	CCV4		CCV	CCV5	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	40200	100.5	40000	40100	100.3	40000	39600	99.0
Antimony	2000	1990	99.5	2000	2020	101.0	2000	2020	101.0
Arsenic	2000	1980	99.0	2000	2020	101.0	2000	2020	101.0
Barium	anr								
Beryllium	anr								
Cadmium	2000	2020	101.0	2000	2060	103.0	2000	2060	103.0
Calcium	40000	40400	101.0	40000	40300	100.8	40000	39800	99.5
Chromium	2000	2020	101.0	2000	2070	103.5	2000	2110	105.5
Cobalt	anr								
Copper	anr								
Iron	40000	40900	102.3	40000	41400	103.5	40000	41100	102.8
Lead	anr								
Magnesium	40000	40000	100.0	40000	39700	99.3	40000	39000	97.5
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium	40000	40100	100.3	40000	40600	101.5	40000	41100	102.8
Selenium	2000	1980	99.0	2000	2030	101.5	2000	2040	102.0
Silver	anr								
Sodium	40000	40100	100.3	40000	39900	99.8	40000	39900	99.8
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: FA1415
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA020513M1.ICP Date Analyzed: 02/05/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA10512 Units: ug/l

Time:		15:15			15:46			16:48	
Sample ID:	CCV	CCV6		CCV	CCV7		CCV	CCV8	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	38900	97.3	40000	39700	99.3	40000	39500	98.8
Antimony	2000	2070	103.5	2000	1960	98.0	2000	1980	99.0
Arsenic	2000	2060	103.0	2000	1960	98.0	2000	1980	99.0
Barium	anr								
Beryllium	anr								
Cadmium	2000	2060	103.0	2000	2000	100.0	2000	2020	101.0
Calcium	40000	38300	95.8	40000	39800	99.5	40000	39900	99.8
Chromium	2000	2130	106.5	2000	1920	96.0	2000	1980	99.0
Cobalt	anr								
Copper	anr								
Iron	40000	40500	101.3	40000	39900	99.8	40000	40300	100.8
Lead	anr								
Magnesium	40000	37800	94.5	40000	39100	97.8	40000	39100	97.8
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium	40000	41000	102.5	40000	39900	99.8	40000	40000	100.0
Selenium	2000	2110	105.5	2000	1960	98.0	2000	1980	99.0
Silver	anr								
Sodium	40000	40600	101.5	40000	40100	100.3	40000	40300	100.8
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: FA1415
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA020513M1.ICP Date Analyzed: 02/05/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA10512 Units: ug/l

Time:		17:24	
Sample ID:	CCV	CCV9	
Metal	True	Results	% Rec
Aluminum	40000	39300	98.3
Antimony	2000	1970	98.5
Arsenic	2000	1980	99.0
Barium	anr		
Beryllium	anr		
Cadmium	2000	2030	101.5
Calcium	40000	40300	100.8
Chromium	2000	2060	103.0
Cobalt	anr		
Copper	anr		
Iron	40000	41100	102.8
Lead	anr		
Magnesium	40000	39800	99.5
Manganese	anr		
Molybdenum			
Nickel	anr		
Potassium	40000	39800	99.5
Selenium	2000	1970	98.5
Silver	anr		
Sodium	40000	40000	100.0
Strontium			
Thallium	anr		
Tin	anr		
Titanium			
Vanadium	anr		
Zinc	anr		

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

HIGH STANDARD CHECK SUMMARY

Login Number: FA1415
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA020513M1.ICP Date Analyzed: 02/05/13 Methods: SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA10512 Units: ug/l

Time:		10:03	
Sample ID:	HSTD	HSTD1	
Metal	True	Results	% Rec
Aluminum	80000	80400	100.5
Antimony	4000	4010	100.3
Arsenic	4000	4010	100.3
Barium	anr		
Beryllium	anr		
Cadmium	4000	3960	99.0
Calcium	80000	80500	100.6
Chromium	4000	4060	101.5
Cobalt	anr		
Copper	anr		
Iron	80000	79800	99.8
Lead	anr		
Magnesium	80000	81400	101.8
Manganese	anr		
Molybdenum			
Nickel	anr		
Potassium	80000	80000	100.0
Selenium	4000	3990	99.8
Silver	anr		
Sodium	80000	79900	99.9
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: FA1415
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA020513M1.ICP Date Analyzed: 02/05/13 Methods: SW846 6010C
QC Limits: CRI 70-130% CRIA 70-130% Run ID: MA10512 Units: ug/l

Time:			10:28		17:10	
Sample ID:	CRI	CRIA	CRIA1		CRIA2	
Metal	True	True	Results	% Rec	Results	% Rec
Aluminum	400	200	215	107.5	166	83.0
Antimony	10	5.0	5.6	112.0	5.1	102.0
Arsenic	20	10	10.3	103.0	10.1	101.0
Barium	400	200	anr			
Beryllium	10	5.0	anr			
Cadmium	10	5.0	5.5	110.0	5.4	108.0
Calcium	2000	1000	1070	107.0	1050	105.0
Chromium	20	10	11.0	110.0	11.3	113.0
Cobalt	100	50	anr			
Copper	50	25	anr			
Iron	600	300	319	106.3	324	108.0
Lead	10	5.0	anr			
Magnesium	10000	5000	5120	102.4	4990	99.8
Manganese	30	15	anr			
Molybdenum	100	50				
Nickel	80	40	anr			
Potassium	20000	10000	10400	104.0	10200	102.0
Selenium	20	10	10.1	101.0	9.4	94.0
Silver	20	10	anr			
Sodium	20000	10000	10400	104.0	10200	102.0
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: FA1415
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA020513M1.ICP Date Analyzed: 02/05/13 Methods: SW846 6010C
QC Limits: 80 to 120 % Recovery Run ID: MA10512 Units: ug/l

Time:			10:38		10:49		17:15		17:20	
Sample ID:	ICSA	ICSAB	ICSA1		ICSAB1		ICSA2		ICSAB2	
Metal	True	True	Results	% Rec	Results	% Rec	Results	% Rec	Results	% Rec
Aluminum	500000	500000	523000	104.6	517000	103.4	506000	101.2	506000	101.2
Antimony		1000	0.0		1030	103.0	-1.3		1000	100.0
Arsenic		1000	0.0		1030	103.0	0.90		1000	100.0
Barium		500	-0.10		494	98.8	-0.50		475	95.0
Beryllium		500	0.0		475	95.0	-0.10		466	93.2
Cadmium		1000	0.0		862	86.2	-1.9		840	84.0
Calcium	500000	500000	490000	98.0	488000	97.6	490000	98.0	496000	99.2
Chromium		500	0.30		454	90.8	-0.10		446	89.2
Cobalt		500	-0.50		425	85.0	-0.30		414	82.8
Copper		500	0.0		518	103.6	-1.2		501	100.2
Iron	200000	200000	190000	95.0	188000	94.0	185000	92.5	183000	91.5
Lead		1000	0.0		857	85.7	3.8		851	85.1
Magnesium	500000	500000	531000	106.2	522000	104.4	512000	102.4	520000	104.0
Manganese		500	0.10		473	94.6	-1.1		456	91.2
Molybdenum		1000	0.60		966	96.6	0.60		945	94.5
Nickel		1000	0.0		843	84.3	-0.40		824	82.4
Potassium			-16		-13		4.7		-5.0	
Selenium		1000	0.0		1010	101.0	-2.2		971	97.1
Silver		1000	-0.10		989	98.9	-0.20		965	96.5
Sodium			62.1		71.5		42.0		37.8	
Strontium		1000	4.3		1090	109.0	4.0		1060	106.0
Thallium		1000	0.0		925	92.5	1.3		915	91.5
Tin		1000	-0.90		906	90.6	0.0		888	88.8
Titanium		1000	-2.2		1050	105.0	-1.2		1020	102.0
Vanadium		500	0.0		469	93.8	0.80		457	91.4
Zinc		1000	0.40		868	86.8	-47* (a)		824	82.4

(*) Outside of QC limits
(anr) Analyte not requested
(a) Possible negative bias.

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA1415
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB020613M1.ICP Date Analyzed: 02/06/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10515
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
08:00	MA10515-STD1	1		STDA
08:04	MA10515-STD2	1		STDB
08:07	MA10515-STD3	1		STDC
08:11	MA10515-STD4	1		STDD
08:16	MA10515-HSTD1	1		
08:23	MA10515-ICV1	1		
08:30	MA10515-ICB1	1		
08:34	MA10515-CRIA1	1		
08:45	MA10515-ICSA1	1		
08:55	MA10515-ICSAB1	1		
09:04	MA10515-CCV1	1		
09:10	MA10515-CCB1	1		
09:16	MP24567-MB1	1		
09:20	MP24567-B1	1		
09:24	FA1349-1	1		(sample used for QC only; not part of login FA1415)
09:28	MP24567-D1	1		
09:32	MP24567-SD1	5		
09:37	MP24567-PS1	1		
09:41	MP24567-S1	1		
09:44	MP24567-S2	1		
09:48	ZZZZZZ	1		
09:53	ZZZZZZ	1		
09:57	MA10515-CCV2	1		
10:01	MA10515-CCB2	1		
10:05	ZZZZZZ	1		
10:09	FA1415-1F	10		
10:14	MP24565-D1	10		
10:18	MP24565-S1	10		
10:22	MP24565-S2	10		
10:26	MP24565-PS1	10		
10:31	MP24565-SD1	50		
10:35	FA1415-2F	10		
---------->	Last reportable sample/prep for job FA1415			
10:43	ZZZZZZ	5		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA1415
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB020613M1.ICP Date Analyzed: 02/06/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10515
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
10:48	MA10515-CCV3	1		
10:51	MA10515-CCB3	1		
11:08	ZZZZZZ	1		
11:34	MA10515-CRIA2	1		
11:38	MA10515-CCV4	1		
11:42	MA10515-CCB4	1		
11:47	MA10515-ICSA2	1		
11:51	MA10515-ICSAB2	1		
11:55	MA10515-CCV5	1		
11:59	MA10515-CCB5	1		

----------> Last reportable CCB for job FA1415
Refer to raw data for calibration curve and standards.

INTERNAL STANDARD SUMMARY

Login Number: FA1415
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB020613M1.ICP Date Analyzed: 02/06/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10515
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	MA10515-STD1	4283	32250	6157	1975
08:04	MA10515-STD2	4267	31854	6252	1863
08:07	MA10515-STD3	4101	30402	6138	1671
08:11	MA10515-STD4	3957	29263	5994	1497
08:16	MA10515-HSTD1	3963	29737	6034	1513
08:23	MA10515-ICV1	4059	30212	6084	1652
08:30	MA10515-ICB1	4313 R	31913 R	6122 R	1975 R
08:34	MA10515-CRIA1	4261	31549	6126	1894
08:45	MA10515-ICSA1	3745	27469	5991	1480
08:55	MA10515-ICSAB1	3751	27156	5857	1439
09:04	MA10515-CCV1	4115	30402	6100	1660
09:10	MA10515-CCB1	4308	31800	6041	1960
09:16	MP24567-MB1	4340	32643	6150	1978
09:20	MP24567-B1	4169	31108	6129	1774
09:24	FA1349-1	4243	31795	6214	1894
09:28	MP24567-D1	4262	31924	6204	1905
09:32	MP24567-SD1	4313	31863	6122	1946
09:37	MP24567-PS1	4249	31949	6284	1851
09:41	MP24567-S1	4134	30875	6158	1736
09:44	MP24567-S2	4127	30580	6141	1731
09:48	ZZZZZZ	4120	30559	6081	1793
09:53	ZZZZZZ	4092	30710	6075	1792
09:57	MA10515-CCV2	4056	30305	6026	1654
10:01	MA10515-CCB2	4270	31957	6117	1963
10:05	ZZZZZZ	4080	30153	6048	1786
10:09	FA1415-1F	4638	33571	6935	1632
10:14	MP24565-D1	4629	33905	6993	1605
10:18	MP24565-S1	4570	33347	6887	1628
10:22	MP24565-S2	4633	33430	6904	1608
10:26	MP24565-PS1	4620	33417	6884	1634
10:31	MP24565-SD1	4378	32351	6348	1812
10:35	FA1415-2F	4544	33287	6830	1638
10:43	ZZZZZZ	3672	25906	5619	1420

INTERNAL STANDARD SUMMARY

Login Number: FA1415
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB020613M1.ICP Date Analyzed: 02/06/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10515
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	MA10515-CCV3	4038	30392	6081	1649
10:51	MA10515-CCB3	4239	31957	6090	1958
11:08	ZZZZZZ	4273	32368	6137	1976
11:34	MA10515-CRIA2	4254	31275	6050	1896
11:38	MA10515-CCV4	4083	30172	6043	1659
11:42	MA10515-CCB4	4249	31971	6080	1968
11:47	MA10515-ICSA2	3700	27257	5859	1477
11:51	MA10515-ICSAB2	3692	26775	5822	1440
11:55	MA10515-CCV5	4054	29927	5921	1651
11:59	MA10515-CCB5	4255	31776	5980	1963

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: FA1415
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB020613M1.ICP Date Analyzed: 02/06/13 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA10515 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	-5.7	<200	0.0	<200	0.50	<200	2.5	<200
Antimony	6.0	1.3	-0.10	<6.0	0.50	<6.0	-0.50	<6.0	1.0	<6.0
Arsenic	10	1.6	-0.10	<10	0.0	<10	0.60	<10	0.50	<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	0.0	<5.0
Calcium	1000	50	-4.7	<1000	4.3	<1000	1.2	<1000	-1.1	<1000
Chromium	10	1.8	-0.10	<10	-0.20	<10	0.20	<10	0.10	<10
Cobalt	50	.5								
Copper	25	1	anr							
Iron	300	29	-1.4	<300	2.5	<300	4.9	<300	4.6	<300
Lead	5.0	1.1	anr							
Magnesium	5000	74	-2.5	<5000	6.2	<5000	5.0	<5000	11.5	<5000
Manganese	15	.7	anr							
Molybdenum	50	.6								
Nickel	40	.5	anr							
Potassium	10000	200	9.5	<10000	-1.3	<10000	4.6	<10000	57.0	<10000
Selenium	10	2	-0.20	<10	-0.90	<10	-0.10	<10	-1.6	<10
Silver	10	.5								
Sodium	10000	500	-1.6	<10000	3.2	<10000	16.1	<10000	158	<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: FA1415
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB020613M1.ICP Date Analyzed: 02/06/13 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA10515 Units: ug/l

Time:			11:42		11:59	
Sample ID:			CCB4		CCB5	
Metal	RL	IDL	raw	final	raw	final
Aluminum	200	15	-2.2	<200	11.9	<200
Antimony	6.0	1.3	0.0	<6.0	0.60	<6.0
Arsenic	10	1.6	0.70	<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
Calcium	1000	50	2.8	<1000	13.9	<1000
Chromium	10	1.8	0.0	<10	0.10	<10
Cobalt	50	.5				
Copper	25	1	anr			
Iron	300	29	5.2	<300	11.8	<300
Lead	5.0	1.1	anr			
Magnesium	5000	74	10.1	<5000	23.5	<5000
Manganese	15	.7	anr			
Molybdenum	50	.6				
Nickel	40	.5	anr			
Potassium	10000	200	27.8	<10000	-1.2	<10000
Selenium	10	2	0.10	<10	-0.10	<10
Silver	10	.5				
Sodium	10000	500	26.3	<10000	28.4	<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: FA1415
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB020613M1.ICP Date Analyzed: 02/06/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA10515 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	40800	102.0	40000	39900	99.8	40000	40400	101.0
Antimony	2000	2050	102.5	2000	1980	99.0	2000	2030	101.5
Arsenic	2000	2020	101.0	2000	2000	100.0	2000	2030	101.5
Barium	anr								
Beryllium	anr								
Cadmium	2000	2050	102.5	2000	2030	101.5	2000	2050	102.5
Calcium	40000	42700	106.8	40000	40400	101.0	40000	40800	102.0
Chromium	2000	2040	102.0	2000	2020	101.0	2000	2030	101.5
Cobalt									
Copper	anr								
Iron	40000	42100	105.3	40000	41000	102.5	40000	41300	103.3
Lead	anr								
Magnesium	40000	41600	104.0	40000	40200	100.5	40000	40600	101.5
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium	40000	41800	104.5	40000	39400	98.5	40000	40200	100.5
Selenium	2000	2090	104.5	2000	1990	99.5	2000	2030	101.5
Silver									
Sodium	40000	38200	95.5	40000	39600	99.0	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: FA1415
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB020613M1.ICP Date Analyzed: 02/06/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA10515 Units: ug/l

Time:		10:48			11:38			11:55	
Sample ID:	CCV	CCV3		CCV	CCV4		CCV	CCV5	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	40300	100.8	40000	40100	100.3	40000	40200	100.5
Antimony	2000	2040	102.0	2000	2010	100.5	2000	2010	100.5
Arsenic	2000	2030	101.5	2000	2020	101.0	2000	2010	100.5
Barium	anr								
Beryllium	anr								
Cadmium	2000	2040	102.0	2000	2040	102.0	2000	2050	102.5
Calcium	40000	40100	100.3	40000	40300	100.8	40000	40500	101.3
Chromium	2000	2010	100.5	2000	2030	101.5	2000	2040	102.0
Cobalt									
Copper	anr								
Iron	40000	40700	101.8	40000	40700	101.8	40000	40700	101.8
Lead	anr								
Magnesium	40000	39400	98.5	40000	39700	99.3	40000	40200	100.5
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium	40000	40500	101.3	40000	39900	99.8	40000	40100	100.3
Selenium	2000	2040	102.0	2000	2020	101.0	2000	2010	100.5
Silver									
Sodium	40000	41000	102.5	40000	40100	100.3	40000	40200	100.5
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium	anr								
Zinc	anr								

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

HIGH STANDARD CHECK SUMMARY

Login Number: FA1415
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB020613M1.ICP Date Analyzed: 02/06/13 Methods: SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA10515 Units: ug/l

Time:		08:16	
Sample ID:	HSTD	HSTD1	
Metal	True	Results	% Rec
Aluminum	80000	80200	100.3
Antimony	4000	4020	100.5
Arsenic	4000	4030	100.8
Barium	anr		
Beryllium	anr		
Cadmium	4000	3960	99.0
Calcium	80000	79700	99.6
Chromium	4000	3930	98.3
Cobalt			
Copper	anr		
Iron	80000	78900	98.6
Lead	anr		
Magnesium	80000	79900	99.9
Manganese	anr		
Molybdenum			
Nickel	anr		
Potassium	80000	81400	101.8
Selenium	4000	4020	100.5
Silver			
Sodium	80000	80800	101.0
Strontium			
Thallium	anr		
Tin			
Titanium			
Vanadium	anr		
Zinc	anr		

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

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: FA1415
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB020613M1.ICP Date Analyzed: 02/06/13 Methods: SW846 6010C
QC Limits: CRI 70-130% CRIA 70-130% Run ID: MA10515 Units: ug/l

Time:			08:34		11:34	
Sample ID:	CRI	CRIA	CRIA1		CRIA2	
Metal	True	True	Results	% Rec	Results	% Rec
Aluminum	400	200	203	101.5	205	102.5
Antimony	10	5.0	6.3	126.0	5.1	102.0
Arsenic	20	10	10.0	100.0	10.1	101.0
Barium	400	200	anr			
Beryllium	10	5.0	anr			
Cadmium	10	5.0	5.3	106.0	5.3	106.0
Calcium	2000	1000	1060	106.0	1060	106.0
Chromium	20	10	10.7	107.0	10.7	107.0
Cobalt	100	50				
Copper	50	25	anr			
Iron	600	300	323	107.7	316	105.3
Lead	10	5.0	anr			
Magnesium	10000	5000	5140	102.8	5210	104.2
Manganese	30	15	anr			
Molybdenum	100	50				
Nickel	80	40	anr			
Potassium	20000	10000	9550	95.5	9700	97.0
Selenium	20	10	8.6	86.0	8.7	87.0
Silver	20	10				
Sodium	20000	10000	9890	98.9	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: FA1415
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB020613M1.ICP Date Analyzed: 02/06/13 Methods: SW846 6010C
QC Limits: 80 to 120 % Recovery Run ID: MA10515 Units: ug/l

Time:			08:45		08:55		11:47		11:51	
Sample ID:	ICSA	ICSAB	ICSA1		ICSAB1		ICSA2		ICSAB2	
Metal	True	True	Results	% Rec	Results	% Rec	Results	% Rec	Results	% Rec
Aluminum	500000	500000	502000	100.4	507000	101.4	509000	101.8	505000	101.0
Antimony		1000	-0.90		1030	103.0	-1.1		1060	106.0
Arsenic		1000	0.50		1020	102.0	-0.20		1040	104.0
Barium		500	-0.70		471	94.2	-0.40		478	95.6
Beryllium		500	-0.30		466	93.2	-0.30		445	89.0
Cadmium		1000	0.0		866	86.6	0.20		869	86.9
Calcium	500000	500000	472000	94.4	479000	95.8	471000	94.2	471000	94.2
Chromium		500	-0.10		449	89.8	-0.10		446	89.2
Cobalt		500	0.40		429	85.8	0.50		430	86.0
Copper		500	-1.8		488	97.6	-2.6		499	99.8
Iron	200000	200000	184000	92.0	186000	93.0	181000	90.5	176000	88.0
Lead		1000	-0.40		865	86.5	0.10		851	85.1
Magnesium	500000	500000	494000	98.8	497000	99.4	494000	98.8	496000	99.2
Manganese		500	0.10		449	89.8	0.0		462	92.4
Molybdenum		1000	-0.60		983	98.3	-0.60		972	97.2
Nickel		1000	-0.30		839	83.9	-0.80		865	86.5
Potassium			-2.8		12.7		22.4		41.6	
Selenium		1000	0.0		996	99.6	-3.9		1020	102.0
Silver		1000	-0.80		914	91.4	-0.40		932	93.2
Sodium			83.6		96.6		146		154	
Strontium		1000	3.6		1080	108.0	3.6		1050	105.0
Thallium		1000	2.0		960	96.0	3.1		935	93.5
Tin		1000	-0.70		921	92.1	-0.10		934	93.4
Titanium		1000	-4.3		1030	103.0	-4.2		1010	101.0
Vanadium		500	-0.10		459	91.8	0.0		463	92.6
Zinc		1000	-2.1		867	86.7	-1.9		865	86.5

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

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: FA1415
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

QC Batch ID: MP24565
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 02/05/13

Metal	RL	IDL	MDL	MB raw	final
Aluminum	200	15	15	4.8	<200
Antimony	6.0	1.3	1.3	-0.50	<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	-7.6	<1000
Chromium	10	1.8	2	0.20	<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	8.5	<5000
Manganese	15	.7	.7		
Molybdenum	50	.6	1		
Nickel	40	.5	.5		
Potassium	10000	200	200	3.7	<10000
Selenium	10	2	2	0.90	<10
Silver	10	.5	.5		
Sodium	10000	500	500	15.5	<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 MP24565: FA1415-1F, FA1415-2F

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: FA1415
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

QC Batch ID: MP24565
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 02/05/13 02/05/13

Metal	FA1415-1F Original	DUP	RPD	QC Limits	FA1415-1F Original	MS	Spikelot MPFLICP1	% Rec	QC Limits
Aluminum	1860000	2110000a	12.6	0-20	1860000	1830000a	27000	-111.1(c	80-120
Antimony	0.0	0.0 (a)	NC	0-20	0.0	342 (a)	500	68.4N(d)	80-120
Arsenic	240	279 (a)	15.0	0-20	240	1730 (a)	2000	74.5N(d)	80-120
Barium	anr								
Beryllium	anr								
Cadmium	3540	4010 (a)	12.5	0-20	3540	3470 (a)	50	-140.0(c	80-120
Calcium	455000	514000(a	12.2	0-20	455000	460000(a	25000	20.0 (c)	80-120
Chromium	3770	4220 (a)	11.3	0-20	3770	3790 (a)	200	10.0 (c)	80-120
Cobalt									
Copper									
Iron	2420000	2640000a	8.7	0-20	2420000	2330000a	26000	-346.2(c	80-120
Lead	anr								
Magnesium	1450000	1650000a	12.9	0-20	1450000	1440000a	25000	-40.0(c)	80-120
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium	506000	581000(a	13.8	0-20	506000	519000(a	25000	52.0 (c)	80-120
Selenium	0.0	0.0 (a)	NC	0-20	0.0	1560 (a)	2000	78.0N(d)	80-120
Silver									
Sodium	855000	960000(b	11.6	0-20	855000	847000(b	25000	-32.0(c)	80-120
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium	anr								
Zinc									

Associated samples MP24565: FA1415-1F, FA1415-2F

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) Elevated reporting limit(s) due to matrix interference. Above linear range.
(c) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.
(d) Spike recovery indicates possible matrix interference.

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FA1415
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

QC Batch ID: MP24565 Methods: SW846 6010C
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 02/05/13

Metal	FA1415-1F Original	MSD	Spikelot MPFLICP1	% Rec	MSD RPD	QC Limit
Aluminum	1860000	1970000a	27000	407.4(b)	7.4	20
Antimony	0.0	360 (a)	500	72.0N(c)	5.1	20
Arsenic	240	1850 (a)	2000	80.5	6.7	20
Barium	anr					
Beryllium	anr					
Cadmium	3540	3720 (a)	50	360.0(b)	7.0	20
Calcium	455000	496000(a	25000	164.0(b)	7.5	20
Chromium	3770	4100 (a)	200	165.0(b)	7.9	20
Cobalt						
Copper						
Iron	2420000	2510000a	26000	346.2(b)	7.4	20
Lead	anr					
Magnesium	1450000	1550000a	25000	400.0(b)	7.4	20
Manganese	anr					
Molybdenum						
Nickel	anr					
Potassium	506000	557000(a	25000	204.0(b)	7.1	20
Selenium	0.0	1670 (a)	2000	83.5	6.8	20
Silver						
Sodium	855000	909000(d	25000	216.0(b)	7.1	20
Strontium						
Thallium	anr					
Tin						
Titanium						
Vanadium	anr					
Zinc						

Associated samples MP24565: FA1415-1F, FA1415-2F

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.
(d) Elevated reporting limit(s) due to matrix interference. Above linear range.

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: FA1415
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

QC Batch ID: MP24565
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 02/05/13

Metal	BSP Result	Spikelot MPFLICP1	% Rec	QC Limits
Aluminum	29100	27000	107.8	80-120
Antimony	531	500	106.2	80-120
Arsenic	2070	2000	103.5	80-120
Barium	anr			
Beryllium	anr			
Cadmium	52.4	50	104.8	80-120
Calcium	27200	25000	108.8	80-120
Chromium	224	200	112.0	80-120
Cobalt				
Copper				
Iron	29100	26000	111.9	80-120
Lead	anr			
Magnesium	26700	25000	106.8	80-120
Manganese	anr			
Molybdenum				
Nickel	anr			
Potassium	26900	25000	107.6	80-120
Selenium	2150	2000	107.5	80-120
Silver				
Sodium	26800	25000	107.2	80-120
Strontium				
Thallium	anr			
Tin				
Titanium				
Vanadium	anr			
Zinc				

Associated samples MP24565: FA1415-1F, FA1415-2F

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

SERIAL DILUTION RESULTS SUMMARY

Login Number: FA1415
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

QC Batch ID: MP24565
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 02/05/13

Metal	FA1415-1F Original	SDL 10:50%	DIF	QC Limits
Aluminum	1860000	2420000	30.0*(a)	0-10
Antimony	0.00	0.00	NC	0-10
Arsenic	240	342	42.5 (b)	0-10
Barium	anr			
Beryllium	anr			
Cadmium	3540	4880	37.9*(a)	0-10
Calcium	455000	616000	35.2*(a)	0-10
Chromium	3770	5010	32.9*(a)	0-10
Cobalt				
Copper				
Iron	2420000	3310000	37.0*(a)	0-10
Lead	anr			
Magnesium	1450000	1900000	30.8*(a)	0-10
Manganese	anr			
Molybdenum				
Nickel	anr			
Potassium	506000	640000	26.5*(a)	0-10
Selenium	0.00	0.00	NC	0-10
Silver				
Sodium	855000	1090000	27.6*(a)	0-10
Strontium				
Thallium	anr			
Tin				
Titanium				
Vanadium	anr			
Zinc				

Associated samples MP24565: FA1415-1F, FA1415-2F

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: FA1415
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

QC Batch ID: MP24565
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 02/05/13

Metal	Sample ml	Final ml	FA1415-1F Raw	Corr.**	PS ug/l	Spike ml	Spike ug/ml	Spike ug/l	% Rec	QC Limits
Aluminum	9.8	10	1864000	1826720	1812000	0.2	125	2500	-588.8*a	80-120
Antimony	9.8	10	0	0	41.5	0.2	5	100	41.5*(a)	80-120
Arsenic	9.8	10	240.2	235.396	324.6	0.2	5	100	89.2	80-120
Barium										
Beryllium										
Cadmium	9.8	10	3535	3464.3	3499	0.2	2.5	50	69.4*(a)	80-120
Calcium	9.8	10	455400	446292	447300	0.2	250	5000	20.2*(a)	80-120
Chromium	9.8	10	3770	3694.6	3720	0.2	2.5	50	50.8*(a)	80-120
Cobalt										
Copper										
Iron	9.8	10	2419000	2370620	2352000	0.2	150	3000	-620.7*a	80-120
Lead										
Magnesium	9.8	10	1452000	1422960	1412000	0.2	250	5000	-219.2*a	80-120
Manganese										
Molybdenum										
Nickel										
Potassium	9.8	10	505900	495782	502700	0.2	500	10000	69.2*(a)	80-120
Selenium	9.8	10	0	0	71.1	0.2	5	100	71.1*(a)	80-120
Silver										
Sodium	9.8	10	855200	838096	841800	0.2	500	10000	37.0*(a)	80-120
Strontium										
Thallium										
Tin										
Titanium										
Vanadium										
Zinc										

Associated samples MP24565: FA1415-1F, FA1415-2F

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: FA1415
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	GN54110	5.0	0.80	mg/l	250	250	99.9	90-113%
Chloride	GP20907/GN53976	2.0	0.0	mg/l	50	51.5	103.0	90-110%
Fluoride	GP20907/GN53976	0.20	0.0	mg/l	2.5	2.32	92.8	90-110%
Nitrogen, Nitrate	GP20907/GN53976	0.10	0.0	mg/l	2.5	2.43	97.2	90-110%
Phosphate, Ortho	GP20898/GN53967	0.10	0.0	mg/l	0.300	0.33	110.0	83-116%
Phosphorus, Total	GP20911/GN53995	0.10	0.0	mg/l	.300	0.27	91.5	81-118%
Solids, Total Dissolved	GN54033	100	10.0	mg/l				
Specific Conductivity	GN53969	1.0	0.0	umhos/cm				
Sulfate	GP20907/GN53976	2.0	0.0	mg/l	50	52.0	104.0	90-110%

Associated Samples:
Batch GN53969: FA1415-1, FA1415-2
Batch GN54033: FA1415-1, FA1415-2
Batch GN54110: FA1415-1, FA1415-2
Batch GP20898: FA1415-1F, FA1415-2F
Batch GP20907: FA1415-1, FA1415-2
Batch GP20911: FA1415-1, FA1415-2
(*) Outside of QC limits

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: FA1415
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	GN54110	FA1465-1	mg/l	302	301	0.3	0-20%
Phosphate, Ortho	GP20898/GN53967	FA1415-1F	mg/l	1830	1760	3.4	0-26%
Phosphorus, Total	GP20911/GN53995	FA1229-1	mg/l	8.9	8.8	1.1	0-22%
Solids, Total Dissolved	GN54033	FA1465-3	mg/l	365	377	3.2	0-5%
Specific Conductivity	GN53969	FA1415-1	umhos/cm	20900	21000	0.6	0-10%
pH	GN53968	FA1415-1	su	2.19	2.19	0.0	0-10%

Associated Samples:
Batch GN53968: FA1415-1, FA1415-2
Batch GN53969: FA1415-1, FA1415-2
Batch GN54033: FA1415-1, FA1415-2
Batch GN54110: FA1415-1, FA1415-2
Batch GP20898: FA1415-1F, FA1415-2F
Batch GP20911: FA1415-1, FA1415-2
(*) Outside of QC limits

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: FA1415
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
Alkalinity, Total as CaCO3	GN54110	FA1465-1	mg/l	302	250	560	103.0	90-113%
Chloride	GP20907/GN53976	FA1395-1	mg/l	9.1	50	59.3	100.4	90-110%
Fluoride	GP20907/GN53976	FA1395-1	mg/l	0.14	2.5	1.9	70.4N(a)	90-110%
Nitrogen, Nitrate	GP20907/GN53976	FA1395-1	mg/l	0.15	2.5	2.4	90.0	90-110%
Phosphate, Ortho	GP20898/GN53967	FA1415-1F	mg/l	1830	0.300	3480	114.2(a)	83-116%
Phosphorus, Total	GP20911/GN53995	FA1229-1	mg/l	8.9	.300	9.2	83.6	81-118%
Sulfate	GP20907/GN53976	FA1395-1	mg/l	1.7	50	50.3	97.2	90-110%

Associated Samples:
Batch GN54110: FA1415-1, FA1415-2
Batch GP20898: FA1415-1F, FA1415-2F
Batch GP20907: FA1415-1, FA1415-2
Batch GP20911: FA1415-1, FA1415-2
(*) 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: FA1415
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	GP20907/GN53976	FA1395-1	mg/l	9.1	50	59.2	0.2	
Fluoride	GP20907/GN53976	FA1395-1	mg/l	0.14	2.5	1.9	0.0N(a)	
Nitrogen, Nitrate	GP20907/GN53976	FA1395-1	mg/l	0.15	2.5	2.4	0.0	
Phosphorus, Total	GP20911/GN53995	FA1229-1	mg/l	8.9	.300	9.22	0.5	22%
Sulfate	GP20907/GN53976	FA1395-1	mg/l	1.7	50	50.2	0.2	

Associated Samples:
Batch GP20907: FA1415-1, FA1415-2
Batch GP20911: FA1415-1, FA1415-2
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(a) Spike recovery indicates possible matrix interference.

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA1415
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: 313020201.TXT Date Analyzed: 02/02/13 Methods: EPA 300/SW846 9056A
Analyst: AA Run ID: GN53976
Parameters: Chloride,Fluoride,Nitrogen, Nitrate,Sulfate

Time	Sample Description	Dilution Factor	PS Recov	Comments
13:16	GN53976-CCV1	1		
13:32	GN53976-CCB1	1		
13:48	GP20907-MB1	1		
14:04	GP20907-B1	1		
14:52	FA1395-1	1		(sample used for QC only; not part of login FA1415)
15:07	ZZZZZZ	1		
15:23	ZZZZZZ	1		
15:39	FA1415-1	200		
15:55	FA1415-2	200		
16:11	ZZZZZZ	1		
16:27	GN53976-CCV2	1		
16:43	GN53976-CCB2	1		
16:59	GP20907-S1	1		
17:15	GP20907-S2	1		
17:31	GN53976-CCV3	1		
17:46	GN53976-CCB3	1		

Refer to raw data for calibration curve and standards.

Instrument QC Summary
Inorganics Analyses

Login Number: FA1415
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: 313020201.TXT Date Analyzed: 02/02/13 Methods: EPA 300/SW846 9056A
Run ID: GN53976 Units: mg/l

Sample Number	Parameter	Result	RL	IDL/MDL	True Value	% Recov.	QC Limits
GN53976-CCV1	Fluoride	2.3	0.20	0.060	2.5	92.0	90-110
GN53976-CCV1	Chloride	51.5	2.0	0.80	50	103.0	90-110
GN53976-CCV1	Nitrogen, Nitrate	2.4	0.10	0.050	2.5	96.0	90-110
GN53976-CCV1	Sulfate	51.9	2.0	0.60	50	103.8	90-110
GN53976-CCB1	Fluoride	0.060 U	0.20	0.060			
GN53976-CCB1	Chloride	0.80 U	2.0	0.80			
GN53976-CCB1	Nitrogen, Nitrate	0.050 U	0.10	0.050			
GN53976-CCB1	Sulfate	0.60 U	2.0	0.60			
GN53976-CCV2	Fluoride	2.3	0.20	0.060	2.5	92.0	90-110
GN53976-CCV2	Chloride	51.4	2.0	0.80	50	102.8	90-110
GN53976-CCV2	Nitrogen, Nitrate	2.7	0.10	0.050	2.5	108.0	90-110
GN53976-CCV2	Sulfate	50.7	2.0	0.60	50	101.4	90-110
GN53976-CCB2	Fluoride	0.060 U	0.20	0.060			
GN53976-CCB2	Chloride	0.80 U	2.0	0.80			
GN53976-CCB2	Nitrogen, Nitrate	0.050 U	0.10	0.050			
GN53976-CCB2	Sulfate	0.60 U	2.0	0.60			
GN53976-CCV3	Fluoride	2.3	0.20	0.060	2.5	92.0	90-110
GN53976-CCV3	Chloride	51.5	2.0	0.80	50	103.0	90-110
GN53976-CCV3	Nitrogen, Nitrate	2.5	0.10	0.050	2.5	100.0	90-110
GN53976-CCV3	Sulfate	50.3	2.0	0.60	50	100.6	90-110
GN53976-CCB3	Fluoride	0.060 U	0.20	0.060			
GN53976-CCB3	Chloride	0.80 U	2.0	0.80			
GN53976-CCB3	Nitrogen, Nitrate	0.050 U	0.10	0.050			
GN53976-CCB3	Sulfate	0.60 U	2.0	0.60			

(!) Outside of QC limits

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA1415
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: 313040201.TXT Date Analyzed: 02/04/13 Methods: EPA 300/SW846 9056A
Analyst: AA Run ID: GN53994
Parameters: Fluoride,Sulfate

Time	Sample Description	Dilution Factor	PS Recov	Comments
10:38	GN53994-CCV1	1		
10:53	GN53994-CCB1	1		
11:09	GP20912-MB1	1		
11:25	GP20912-B1	1		
12:13	ZZZZZZ	2		
12:29	ZZZZZZ	5		
12:45	FA1415-1	500		
13:01	FA1415-2	500		
13:16	FA1151-1	1		(sample used for QC only; not part of login FA1415)
13:32	ZZZZZZ	1		
13:48	GN53994-CCV2	1		
14:38	GN53994-CCB2	1		
14:54	ZZZZZZ	1		
15:10	ZZZZZZ	1		
15:26	ZZZZZZ	1		
15:41	ZZZZZZ	1		
15:57	ZZZZZZ	1		
16:13	ZZZZZZ	1		
16:29	ZZZZZZ	1		
16:45	GP20912-S1	1		
17:01	GP20912-S2	1		
17:17	GN53994-CCV3	1		
17:33	GN53994-CCB3	1		
17:49	GP20909-MB1	1		
18:04	GP20909-B1	1		
18:36	ZZZZZZ	2		
19:24	ZZZZZZ	5		
19:56	ZZZZZZ	5		
20:27	GN53994-CCV4	1		
20:43	GN53994-CCB4	1		
20:59	ZZZZZZ	5		
22:19	GN53994-CCV5	1		
22:35	GN53994-CCB5	1		

Refer to raw data for calibration curve and standards.

Instrument QC Summary
Inorganics Analyses

Login Number: FA1415
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: 313040201.TXT Date Analyzed: 02/04/13 Methods: EPA 300/SW846 9056A
Run ID: GN53994 Units: mg/l

Sample Number	Parameter	Result	RL	IDL/MDL	True Value	% Recov.	QC Limits
GN53994-CCV1	Fluoride	2.4	0.20	0.060	2.5	96.0	90-110
GN53994-CCV1	Sulfate	51.5	2.0	0.60	50	103.0	90-110
GN53994-CCB1	Fluoride	0.060 U	0.20	0.060			
GN53994-CCB1	Sulfate	0.60 U	2.0	0.60			
GN53994-CCV2	Fluoride	2.3	0.20	0.060	2.5	92.0	90-110
GN53994-CCV2	Sulfate	50.5	2.0	0.60	50	101.0	90-110
GN53994-CCB2	Fluoride	0.060 U	0.20	0.060			
GN53994-CCB2	Sulfate	0.60 U	2.0	0.60			
GN53994-CCV3	Fluoride	2.3	0.20	0.060	2.5	92.0	90-110
GN53994-CCV3	Sulfate	50.7	2.0	0.60	50	101.4	90-110
GN53994-CCB3	Fluoride	0.060 U	0.20	0.060			
GN53994-CCB3	Sulfate	0.60 U	2.0	0.60			
GN53994-CCV4	Fluoride	2.4	0.20	0.060	2.5	96.0	90-110
GN53994-CCV4	Sulfate	51.3	2.0	0.60	50	102.6	90-110
GN53994-CCB4	Fluoride	0.060 U	0.20	0.060			
GN53994-CCB4	Sulfate	0.60 U	2.0	0.60			
GN53994-CCV5	Fluoride	2.4	0.20	0.060	2.5	96.0	90-110
GN53994-CCV5	Sulfate	51.2	2.0	0.60	50	102.4	90-110
GN53994-CCB5	Fluoride	0.060 U	0.20	0.060			
GN53994-CCB5	Sulfate	0.60 U	2.0	0.60			

(!) Outside of QC limits

Southeast ACCUTEST LABORATORIES

02/25/13

Technical Report for

WSP Environment & Energy

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

Accutest Job Number: FA1614

Sampling Date: 02/07/13

Report to:

WSP Environment & Energy
205 West Park Street
Jackson, MO 63755
brian.kelly@wspgroup.com; tim.huff@wspgroup.com;
isaac.pelz@wspgroup.com; steve.dawson@wspgroup.com
ATTN: Tim Huff

Total number of pages in report: **76**

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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Test results relate only to samples analyzed.

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Accutest Laboratories

Sample Summary

WSP Environment & Energy

Job No: FA1614

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

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA1614-1	02/07/13	13:30	TPRP	02/09/13	AQ	Ground Water	A-34-022
FA1614-1F	02/07/13	13:30	TPRP	02/09/13	AQ	Groundwater Filtered	A-34-022

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: WSP Environment & Energy **Job No:** FA1614

Site: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID **Report Date:** 2/25/2013 4:17:49 PM

1 Sample was collected on 02/07/2013 and was received at Accutest SE on 02/09/2013 properly preserved, at 3.4 Deg. C and intact. The Sample received an Accutest job number of FA1614. 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:** MP24608

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) FA1672-1DUP, FA1672-1MS, FA1672-1MSD, FA1672-1PS, FA1672-1SDL were used as the QC samples for metals.

RPD(s) for Duplicate for Antimony are outside control limits for sample MP24608-D1. RPD acceptable due to low duplicate and sample concentrations.

RPD(s) for Serial Dilution for Antimony are outside control limits for sample MP24608-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

FA1614-1F for Arsenic: Elevated reporting limit(s) due to matrix interference.

FA1614-1F for Cadmium: Elevated reporting limit(s) due to matrix interference.

FA1614-1F for Calcium: Elevated reporting limit(s) due to matrix interference.

FA1614-1F for Chromium: Elevated reporting limit(s) due to matrix interference.

FA1614-1F for Selenium: Elevated reporting limit(s) due to matrix interference.

FA1614-1F for Antimony: Elevated reporting limit(s) due to matrix interference.

Wet Chemistry By Method EPA 120.1

Matrix: AQ **Batch ID:** GN54072

All method blanks for this batch meet method specific criteria.

Sample(s) FA1614-1DUP was used as the QC sample for Specific Conductivity.

The following samples were run outside of holding time for method EPA 120.1: FA1614-1. Sample received outside the holding time.

Wet Chemistry By Method EPA 300/SW846 9056A

Matrix: AQ **Batch ID:** GP20957

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) FA1616-1MS, FA1616-1MSD were used as the QC samples for Chloride, Nitrogen, Nitrate, Sulfate, Fluoride.

Matrix Spike Recovery(s)/Matrix Spike Duplicate 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.

FA1614-1 for Chloride: Dilution required due to matrix interference.
FA1614-1 for Nitrogen, Nitrate: Sample received near the end of hold. Dilution required due to matrix interference.

Wet Chemistry By Method EPA 365.3

Matrix: AQ **Batch ID:** GP20946

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) FA1614-1FDUP, FA1614-1FMS were used as the QC samples for Phosphate, Ortho.

Wet Chemistry By Method EPA 365.3

Matrix: AQ **Batch ID:** GP20996

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA1718-1DUP, FA1718-1MSD were used as the QC samples for Phosphorus, Total.

GP20996-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:** GN54071

Sample(s) FA1614-1DUP was used as the QC sample for pH.

FA1614-1 for pH: Field analysis required. Received out of hold time and analyzed by request.

Wet Chemistry By Method SM19 2320B

Matrix: AQ **Batch ID:** GN54160

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA1526-1DUP, FA1526-1MS were used as the QC samples for Alkalinity, Total as CaCO3.

Wet Chemistry By Method SM19 2540C

Matrix: AQ **Batch ID:** GN54100

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA1507-7DUP 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: February 25, 2013

Kim Benham, Client Services (signature on file)

Summary of Hits

Job Number: FA1614
Account: WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID
Collected: 02/07/13

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA1614-1	**A-34-022**					
Fluoride		2310	100	30	mg/l	EPA 300/SW846 9056A
Phosphorus, Total		2460	1000	280	mg/l	EPA 365.3
Solids, Total Dissolved		32200	2000	200	mg/l	SM19 2540C
Specific Conductivity [a]		19000	1.0	1.0	umhos/cm	EPA 120.1
Sulfate		18500	400	120	mg/l	EPA 300/SW846 9056A
pH [b]		2.31			su	SM 4500H B/SW 9040C
FA1614-1F	**A-34-022**					
Aluminum		1660000	1000	75	ug/l	SW846 6010C
Arsenic [c]		240	50	13	ug/l	SW846 6010C
Cadmium [c]		3580	25	2.5	ug/l	SW846 6010C
Calcium [c]		487000	5000	250	ug/l	SW846 6010C
Chromium [c]		3560	50	10	ug/l	SW846 6010C
Iron		1850000	1500	150	ug/l	SW846 6010C
Magnesium		1230000	25000	370	ug/l	SW846 6010C
Potassium		625000	250000	5000	ug/l	SW846 6010C
Sodium		1120000	250000	13000	ug/l	SW846 6010C
Phosphate, Ortho		1630	500	95	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.
(c) Elevated reporting limit(s) due to matrix interference.

Southeast ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	A-34-022		
Lab Sample ID:	FA1614-1	**Date Sampled:**	02/07/13
Matrix:	AQ - Ground Water	**Date Received:**	02/09/13
		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
Alkalinity, Bicarbonate as CaC	5.0 U	5.0	5.0	mg/l	1	02/19/13	AC	SM18 4500CO2D
Alkalinity, Carbonate	5.0 U	5.0	5.0	mg/l	1	02/19/13	AC	SM18 4500CO2D
Alkalinity, Total as CaCO3	0.60 U	5.0	0.60	mg/l	1	02/14/13 08:15	AC	SM19 2320B
Chloride [a]	160 U	400	160	mg/l	200	02/09/13 14:24	AA	EPA 300/SW846 9056A
Fluoride	2310	100	30	mg/l	500	02/11/13 11:16	AA	EPA 300/SW846 9056A
Nitrogen, Nitrate [b]	10 U	20	10	mg/l	200	02/09/13 14:24	AA	EPA 300/SW846 9056A
Phosphorus, Total	2460	1000	280	mg/l	10000	02/18/13 13:45	LE	EPA 365.3
Solids, Total Dissolved	32200	2000	200	mg/l	20	02/12/13 13:57	MG	SM19 2540C
Specific Conductivity [c]	19000	1.0	1.0	umhos/cm	1	02/09/13 11:40	MG	EPA 120.1
Sulfate	18500	400	120	mg/l	200	02/09/13 14:24	AA	EPA 300/SW846 9056A
pH [d]	2.31			su	1	02/09/13 13:00	MG	SM 4500H B/SW 9040C

(a) Dilution required due to matrix interference.
(b) Sample received near the end of hold. 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-34-022		
Lab Sample ID:	FA1614-1F	**Date Sampled:**	02/07/13
Matrix:	AQ - Groundwater Filtered	**Date Received:**	02/09/13
		Percent Solids:	n/a
Project:	Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	1660000	1000	75	ug/l	5	02/13/13	02/15/13	LM	SW846 6010C [1]	SW846 3010A [3]
Antimony [a]	6.5 U	30	6.5	ug/l	5	02/13/13	02/15/13	LM	SW846 6010C [1]	SW846 3010A [3]
Arsenic [a]	240	50	13	ug/l	5	02/13/13	02/15/13	LM	SW846 6010C [1]	SW846 3010A [3]
Cadmium [a]	3580	25	2.5	ug/l	5	02/13/13	02/15/13	LM	SW846 6010C [1]	SW846 3010A [3]
Calcium [a]	487000	5000	250	ug/l	5	02/13/13	02/15/13	LM	SW846 6010C [1]	SW846 3010A [3]
Chromium [a]	3560	50	10	ug/l	5	02/13/13	02/15/13	LM	SW846 6010C [1]	SW846 3010A [3]
Iron	1850000	1500	150	ug/l	5	02/13/13	02/15/13	LM	SW846 6010C [1]	SW846 3010A [3]
Magnesium	1230000	25000	370	ug/l	5	02/13/13	02/15/13	LM	SW846 6010C [1]	SW846 3010A [3]
Potassium	625000	250000	5000	ug/l	25	02/13/13	02/18/13	LM	SW846 6010C [2]	SW846 3010A [3]
Selenium [a]	10 U	50	10	ug/l	5	02/13/13	02/15/13	LM	SW846 6010C [1]	SW846 3010A [3]
Sodium	1120000	250000	13000	ug/l	25	02/13/13	02/18/13	LM	SW846 6010C [2]	SW846 3010A [3]

(1) Instrument QC Batch: MA10537
(2) Instrument QC Batch: MA10541
(3) Prep QC Batch: MP24608

(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:	FA1614-1F	**Date Sampled:**	02/07/13
Matrix:	AQ - Groundwater Filtered	**Date Received:**	02/09/13
		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	1630	500	95	mg/l	5000	02/09/13 11:34	MG	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

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Accutest JOB # FA1614 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#: 573-217-6759
Sampler(s) Name(s) (Printed): T. PATTIE R. 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	HNO3	H2SO4	NaOH-ZnAc	DI Water	NaOH	Analytical Information	LAB USE ONLY
1	A-34-022				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]	020813 0930	2 FX	3 FX	2-9-13	4 J. Cosner (ASE) 10:00
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: 3.4

FA1614: Chain of Custody
Page 1 of 3

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: FA 1614 CLIENT: WSP PROJECT: AGRIUM

DATE/TIME RECEIVED: 2-9-13 10:00 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 1

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

AIRBILL NUMBERS: 8013 5908 1308

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: 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: NO DATE TIME ON COC LABELS (ok'd 2-9-13 at 13:30

TECHNICIAN SIGNATURE/DATE [signature] 2-9-13 REVIEWER SIGNATURE/DATE [signature] 02/09/13

NF 12/10 receipt confirmation 122910.xls

5.1 5

FA1614: Chain of Custody
Page 2 of 3

Metals and O-Phos - Field Filtered

Note: A-34-022 High Phosphate

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

- total dissolved solids (TDS)
- dissolved 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

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: FA1614
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA021413M1.ICP Date Analyzed: 02/14/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10534
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
07:51	MA10534-STD1	1		STDA
07:55	MA10534-STD2	1		STDB
08:01	MA10534-STD3	1		STDC
08:05	MA10534-STD4	1		STDD
08:12	MA10534-HSTD1	1		
08:18	MA10534-ICV1	1		
08:31	MA10534-ICB1	1		
08:36	MA10534-CRIA1	1		
08:45	MA10534-ICSA1	1		
08:53	MA10534-ICSAB1	1		
09:06	MA10534-CCV1	1		
09:11	MA10534-CCB1	1		
09:19	MP24608-MB1	1		
09:24	MP24608-B1	1		
09:28	FA1672-1	1		(sample used for QC only; not part of login FA1614)
09:32	MP24608-D1	1		
09:37	MP24608-SD1	5		
09:41	MP24608-PS1	1		
09:46	MP24608-S1	1		
09:50	MP24608-S2	1		
---------->	Last reportable sample/prep for job FA1614			
09:54	ZZZZZZ	1		
09:59	ZZZZZZ	1		
10:03	MA10534-CCV2	1		
10:07	MA10534-CCB2	1		
10:12	ZZZZZZ	1		
10:16	ZZZZZZ	1		
10:21	ZZZZZZ	1		
10:25	ZZZZZZ	1		
10:30	ZZZZZZ	1		
10:34	ZZZZZZ	1		
10:39	ZZZZZZ	1		
10:43	ZZZZZZ	1		
10:48	MP24607-MB1	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA1614
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA021413M1.ICP Date Analyzed: 02/14/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10534
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
10:52	MP24607-B1	1		
10:57	MA10534-CCV3	1		
11:01	MA10534-CCB3	1		
11:05	FA1675-1	1		(sample used for QC only; not part of login FA1614)
11:10	MP24607-D1	1		
11:15	MP24607-SD1	5		
11:19	MP24607-PS1	1		
11:24	MP24607-S1	1		
11:29	MP24607-S2	1		
11:34	ZZZZZZ	1		
11:38	ZZZZZZ	1		
11:42	ZZZZZZ	1		
11:51	MA10534-CCV4	1		
11:56	MA10534-CCB4	1		
12:45	MA10534-CCV5	1		
12:49	MA10534-CCB5	1		
13:39	MA10534-CCV6	1		
13:43	MA10534-CCB6	1		
14:39	ZZZZZZ	1		
14:44	MA10534-CRIA2	1		
14:48	MA10534-CCV7	1		
14:52	MA10534-CCB7	1		
14:57	MA10534-ICSA2	1		
15:02	MA10534-ICSAB2	1		
15:06	MA10534-CCV8	1		
15:10	MA10534-CCB8	1		

----------> Last reportable CCB for job FA1614
Refer to raw data for calibration curve and standards.

INTERNAL STANDARD SUMMARY

Login Number: FA1614
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA021413M1.ICP Date Analyzed: 02/14/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10534
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
07:51	MA10534-STD1	2062	18667	6852	1213
07:55	MA10534-STD2	2016	18180	6897	1122
08:01	MA10534-STD3	1929	17359	6835	998
08:05	MA10534-STD4	1869	16812	6702	927
08:12	MA10534-HSTD1	1855	16763	6711	921
08:18	MA10534-ICV1	1934	17422	6866	997
08:31	MA10534-ICB1	2048 R	18351 R	6844 R	1186 R
08:36	MA10534-CRIA1	2031	17994	6812	1147
08:45	MA10534-ICSA1	1763	15210	6492	867
08:53	MA10534-ICSAB1	1761	15213	6445	855
09:06	MA10534-CCV1	1941	17091	6729	992
09:11	MA10534-CCB1	2088	18295	6814	1208
09:19	MP24608-MB1	2116	18738	6939	1215
09:24	MP24608-B1	1949	17241	6876	1037
09:28	FA1672-1	1914	17002	6801	1042
09:32	MP24608-D1	1895	16881	6713	1035
09:37	MP24608-SD1	1991	17722	6835	1128
09:41	MP24608-PS1	1901	16945	6838	1018
09:46	MP24608-S1	1891	16620	6718	982
09:50	MP24608-S2	1875	16519	6664	980
09:54	ZZZZZZ	1975	17594	6889	1108
09:59	ZZZZZZ	1905	16989	6854	1033
10:03	MA10534-CCV2	1921	17006	6733	984
10:07	MA10534-CCB2	2044	18181	6781	1190
10:12	ZZZZZZ	1943	17253	6934	1029
10:16	ZZZZZZ	No results reported for the elements associated with this internal standard.			
10:21	ZZZZZZ	1951	17217	6760	1074
10:25	ZZZZZZ	1826	16274	6673	968
10:30	ZZZZZZ	1982	17763	6896	1113
10:34	ZZZZZZ	1950	17344	6747	1093
10:39	ZZZZZZ	1840	15900	6866	865
10:43	ZZZZZZ	1971	17629	6889	1105
10:48	MP24607-MB1	2086	18405	6985	1229

INTERNAL STANDARD SUMMARY

Login Number: FA1614
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA021413M1.ICP Date Analyzed: 02/14/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10534
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
10:52	MP24607-B1	1990	17337	6953	1060
10:57	MA10534-CCV3	1892	16713	6709	973
11:01	MA10534-CCB3	2044	18176	6918	1180
11:05	FA1675-1	3149	28028	11705	926
11:10	MP24607-D1	3248	29337	12138	915
11:15	MP24607-SD1	2186	19516	7843	1024
11:19	MP24607-PS1	3090	27858	11689	905
11:24	MP24607-S1	2847	25701	10845	889
11:29	MP24607-S2	3428	31314	13295	879
11:34	ZZZZZZ	3284 !	29549 !	11965 !	1015
11:38	ZZZZZZ	4465 !	40172 !	16445 !	979
11:42	ZZZZZZ	3342 !	30430 !	12306 !	1041
11:51	MA10534-CCV4	1879	16704	6666	975
11:56	MA10534-CCB4	1999	18040	6855	1164
12:45	MA10534-CCV5	1846	16534	6693	971
12:49	MA10534-CCB5	1970	17813	6801	1165
13:39	MA10534-CCV6	1876	16840	6834	970
13:43	MA10534-CCB6	10210	74025	18281	5403
14:39	ZZZZZZ	1623	14266	6206	805
14:44	MA10534-CRIA2	1956	17406	6859	1105
14:48	MA10534-CCV7	1857	16629	6708	965
14:52	MA10534-CCB7	1964	17797	6850	1155
14:57	MA10534-ICSA2	1667	14702	6453	832
15:02	MA10534-ICSAB2	1671	14596	6384	825
15:06	MA10534-CCV8	1842	16667	6722	959
15:10	MA10534-CCB8	1965	17806	6857	1153

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: FA1614
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA021413M1.ICP Date Analyzed: 02/14/13 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA10534 Units: ug/l

Time:			08:31		09:11		10:07		11:01	
Sample ID:			ICB1		CCB1		CCB2		CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	15	8.2	<200	12.9	<200	11.3	<200	7.5	<200
Antimony	6.0	1.3	0.20	<6.0	-0.40	<6.0	-0.40	<6.0	-0.10	<6.0
Arsenic	10	1.6	0.40	<10	1.2	<10	0.40	<10	0.0	<10
Barium	200	1								
Beryllium	4.0	.5								
Cadmium	5.0	.5	0.0	<5.0	0.10	<5.0	0.10	<5.0	0.0	<5.0
Calcium	1000	50	3.2	<1000	11.2	<1000	11.3	<1000	4.5	<1000
Chromium	10	1.8	0.10	<10	0.30	<10	0.10	<10	0.0	<10
Cobalt	50	.5								
Copper	25	1	anr							
Iron	300	29	5.2	<300	17.5	<300	16.7	<300	15.8	<300
Lead	5.0	1.1	anr							
Magnesium	5000	74	9.0	<5000	18.5	<5000	6.7	<5000	9.5	<5000
Manganese	15	.7	anr							
Molybdenum	50	.6	anr							
Nickel	40	.5	anr							
Potassium	10000	200	1.6	<10000	0.30	<10000	0.50	<10000	2.2	<10000
Selenium	10	2	0.50	<10	0.40	<10	-0.50	<10	1.8	<10
Silver	10	.5	anr							
Sodium	10000	500	5.0	<10000	9.5	<10000	8.7	<10000	24.6	<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: FA1614
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA021413M1.ICP Date Analyzed: 02/14/13 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA10534 Units: ug/l

Time:			11:56		12:49		13:43		14:52	
Sample ID:			CCB4		CCB5		CCB6		CCB7	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	15	5.5	<200	5.6	<200	-5.4	<200	10.1	<200
Antimony	6.0	1.3	0.20	<6.0	0.10	<6.0	-1.4	<6.0	0.10	<6.0
Arsenic	10	1.6	1.1	<10	-1.0	<10	6.3	<10* (a)	0.50	<10
Barium	200	1								
Beryllium	4.0	.5								
Cadmium	5.0	.5	0.0	<5.0	0.0	<5.0	0.40	<5.0	0.10	<5.0
Calcium	1000	50	1.9	<1000	6.2	<1000	3.5	<1000	12.4	<1000
Chromium	10	1.8	0.10	<10	0.30	<10	-0.10	<10	0.30	<10
Cobalt	50	.5								
Copper	25	1	anr							
Iron	300	29	8.5	<300	11.4	<300	-3.4	<300	19.5	<300
Lead	5.0	1.1	anr							
Magnesium	5000	74	0.0	<5000	20.6	<5000	14.5	<5000	19.9	<5000
Manganese	15	.7	anr							
Molybdenum	50	.6	anr							
Nickel	40	.5	anr							
Potassium	10000	200	29.7	<10000	-4.1	<10000	-25	<10000	106	<10000
Selenium	10	2	1.1	<10	-0.40	<10	2.4	<10	0.70	<10
Silver	10	.5	anr							
Sodium	10000	500	19.3	<10000	12.5	<10000	-13	<10000	66.3	<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
(a) No samples for As_ reported in the area bracketed by this QC.

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: FA1614
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA021413M1.ICP Date Analyzed: 02/14/13 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA10534 Units: ug/l

Time:			15:10	
Sample ID:			CCB8	
Metal	RL	IDL	raw	final
Aluminum	200	15	16.9	<200
Antimony	6.0	1.3	-0.60	<6.0
Arsenic	10	1.6	0.20	<10
Barium	200	1		
Beryllium	4.0	.5		
Cadmium	5.0	.5	0.20	<5.0
Calcium	1000	50	14.9	<1000
Chromium	10	1.8	0.0	<10
Cobalt	50	.5		
Copper	25	1	anr	
Iron	300	29	22.4	<300
Lead	5.0	1.1	anr	
Magnesium	5000	74	22.6	<5000
Manganese	15	.7	anr	
Molybdenum	50	.6	anr	
Nickel	40	.5	anr	
Potassium	10000	200	55.1	<10000
Selenium	10	2	0.70	<10
Silver	10	.5	anr	
Sodium	10000	500	34.4	<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: FA1614
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA021413M1.ICP Date Analyzed: 02/14/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA10534 Units: ug/l

Time:		08:18			09:06			10:03	
Sample ID:	ICV	ICV1		CCV	CCV1		CCV	CCV2	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	41000	102.5	40000	40400	101.0	40000	40500	101.3
Antimony	2000	2030	101.5	2000	2020	101.0	2000	2040	102.0
Arsenic	2000	1990	99.5	2000	2020	101.0	2000	2040	102.0
Barium									
Beryllium									
Cadmium	2000	2040	102.0	2000	2060	103.0	2000	2070	103.5
Calcium	40000	42700	106.8	40000	41700	104.3	40000	41900	104.8
Chromium	2000	2050	102.5	2000	2080	104.0	2000	2090	104.5
Cobalt									
Copper	anr								
Iron	40000	42300	105.8	40000	41400	103.5	40000	41300	103.3
Lead	anr								
Magnesium	40000	41200	103.0	40000	41300	103.3	40000	41400	103.5
Manganese	anr								
Molybdenum	anr								
Nickel	anr								
Potassium	40000	42100	105.3	40000	40700	101.8	40000	41000	102.5
Selenium	2000	2070	103.5	2000	2030	101.5	2000	2050	102.5
Silver	anr								
Sodium	40000	38500	96.3	40000	40600	101.5	40000	41000	102.5
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: FA1614
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA021413M1.ICP Date Analyzed: 02/14/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA10534 Units: ug/l

Time:		10:57			11:51			12:45	
Sample ID:	CCV	CCV3		CCV	CCV4		CCV	CCV5	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	40800	102.0	40000	41300	103.3	40000	41500	103.8
Antimony	2000	2070	103.5	2000	2080	104.0	2000	2130	106.5
Arsenic	2000	2070	103.5	2000	2070	103.5	2000	2120	106.0
Barium									
Beryllium									
Cadmium	2000	2080	104.0	2000	2080	104.0	2000	2120	106.0
Calcium	40000	41300	103.3	40000	41200	103.0	40000	41400	103.5
Chromium	2000	2090	104.5	2000	2100	105.0	2000	2120	106.0
Cobalt									
Copper	anr								
Iron	40000	41200	103.0	40000	41300	103.3	40000	41500	103.8
Lead	anr								
Magnesium	40000	41000	102.5	40000	41100	102.8	40000	41100	102.8
Manganese	anr								
Molybdenum	anr								
Nickel	anr								
Potassium	40000	41500	103.8	40000	41700	104.3	40000	42100	105.3
Selenium	2000	2080	104.0	2000	2090	104.5	2000	2130	106.5
Silver	anr								
Sodium	40000	41500	103.8	40000	41800	104.5	40000	42200	105.5
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: FA1614
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA021413M1.ICP Date Analyzed: 02/14/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA10534 Units: ug/l

Time:		13:39			14:48			15:06	
Sample ID:	CCV	CCV6		CCV	CCV7		CCV	CCV8	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	40600	101.5	40000	41100	102.8	40000	41200	103.0
Antimony	2000	2090	104.5	2000	2110	105.5	2000	2130	106.5
Arsenic	2000	2070	103.5	2000	2090	104.5	2000	2120	106.0
Barium									
Beryllium									
Cadmium	2000	2090	104.5	2000	2110	105.5	2000	2120	106.0
Calcium	40000	41800	104.5	40000	41800	104.5	40000	41500	103.8
Chromium	2000	2080	104.0	2000	2100	105.0	2000	2100	105.0
Cobalt									
Copper	anr								
Iron	40000	40700	101.8	40000	41100	102.8	40000	40900	102.3
Lead	anr								
Magnesium	40000	41100	102.8	40000	41500	103.8	40000	41000	102.5
Manganese	anr								
Molybdenum	anr								
Nickel	anr								
Potassium	40000	42300	105.8	40000	43100	107.8	40000	43000	107.5
Selenium	2000	2090	104.5	2000	2100	105.0	2000	2130	106.5
Silver	anr								
Sodium	40000	42400	106.0	40000	42800	107.0	40000	43000	107.5
Strontium									
Thallium									
Tin									
Titanium									
Vanadium									
Zinc	anr								

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

HIGH STANDARD CHECK SUMMARY

Login Number: FA1614
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA021413M1.ICP Date Analyzed: 02/14/13 Methods: SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA10534 Units: ug/l

Time:		08:12	
Sample ID:	HSTD	HSTD1	
Metal	True	Results	% Rec
Aluminum	80000	81100	101.4
Antimony	4000	4050	101.3
Arsenic	4000	4060	101.5
Barium			
Beryllium			
Cadmium	4000	3990	99.8
Calcium	80000	79900	99.9
Chromium	4000	4000	100.0
Cobalt			
Copper	anr		
Iron	80000	79900	99.9
Lead	anr		
Magnesium	80000	80700	100.9
Manganese	anr		
Molybdenum	anr		
Nickel	anr		
Potassium	80000	80900	101.1
Selenium	4000	4060	101.5
Silver	anr		
Sodium	80000	80800	101.0
Strontium			
Thallium			
Tin			
Titanium			
Vanadium			
Zinc	anr		

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

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: FA1614
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA021413M1.ICP Date Analyzed: 02/14/13 Methods: SW846 6010C
QC Limits: CRI 70-130% CRIA 70-130% Run ID: MA10534 Units: ug/l

Time:			08:36		14:44	
Sample ID:	CRI	CRIA	CRIA1		CRIA2	
Metal	True	True	Results	% Rec	Results	% Rec
Aluminum	400	200	210	105.0	224	112.0
Antimony	10	5.0	4.8	96.0	4.9	98.0
Arsenic	20	10	10.5	105.0	10.8	108.0
Barium	400	200				
Beryllium	10	5.0				
Cadmium	10	5.0	5.3	106.0	5.5	110.0
Calcium	2000	1000	1070	107.0	1130	113.0
Chromium	20	10	10.3	103.0	10.9	109.0
Cobalt	100	50				
Copper	50	25	anr			
Iron	600	300	327	109.0	351	117.0
Lead	10	5.0	anr			
Magnesium	10000	5000	5120	102.4	5220	104.4
Manganese	30	15	anr			
Molybdenum	100	50	anr			
Nickel	80	40	anr			
Potassium	20000	10000	10200	102.0	11000	110.0
Selenium	20	10	11.5	115.0	10.8	108.0
Silver	20	10	anr			
Sodium	20000	10000	10200	102.0	11000	110.0
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: FA1614
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA021413M1.ICP Date Analyzed: 02/14/13 Methods: SW846 6010C
QC Limits: 80 to 120 % Recovery Run ID: MA10534 Units: ug/l

Time:			08:45		08:53		14:57		15:02	
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	515000	103.0	517000	103.4	521000	104.2
Antimony		1000	1.1		1030	103.0	4.2		1090	109.0
Arsenic		1000	-0.40		1020	102.0	-3.5		1070	107.0
Barium		500	-0.30		487	97.4	-0.30		488	97.6
Beryllium		500	-0.10		478	95.6	-0.10		483	96.6
Cadmium		1000	0.0		873	87.3	3.7		907	90.7
Calcium	500000	500000	480000	96.0	485000	97.0	493000	98.6	490000	98.0
Chromium		500	0.30		460	92.0	0.20		467	93.4
Cobalt		500	-1.0		430	86.0	-1.2		444	88.8
Copper		500	-1.6		523	104.6	-1.5		555	111.0
Iron	200000	200000	184000	92.0	183000	91.5	183000	91.5	181000	90.5
Lead		1000	0.0		871	87.1	-2.1		890	89.0
Magnesium	500000	500000	513000	102.6	521000	104.2	520000	104.0	522000	104.4
Manganese		500	0.10		473	94.6	0.10		479	95.8
Molybdenum		1000	0.10		983	98.3	-0.10		1020	102.0
Nickel		1000	0.40		860	86.0	0.20		896	89.6
Potassium			5.1		8.9		150		102	
Selenium		1000	0.0		988	98.8	-1.9		1030	103.0
Silver		1000	0.20		1010	101.0	0.20		1090	109.0
Sodium			81.5		105		183		171	
Strontium		1000	4.2		1080	108.0	4.5		1120	112.0
Thallium		1000	0.0		933	93.3	0.0		954	95.4
Tin		1000	-0.30		920	92.0	-0.50		964	96.4
Titanium		1000	-3.5		1080	108.0	-3.6		1110	111.0
Vanadium		500	0.80		481	96.2	0.20		502	100.4
Zinc		1000	0.80		887	88.7	0.10		910	91.0

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

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA1614
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB021513M1.ICP Date Analyzed: 02/15/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10537
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,Se

	Time	Sample Description	Dilution Factor	PS Recov	Comments
	07:47	MA10537-STD1	1		STDA
	07:51	MA10537-STD2	1		STDB
	07:55	MA10537-STD3	1		STDC
	08:00	MA10537-STD4	1		STDD
	08:05	MA10537-HSTD1	1		
	08:12	MA10537-ICV1	1		
	08:18	MA10537-ICB1	1		
	08:22	MA10537-CRIA1	1		
	08:31	MA10537-ICSA1	1		
	08:38	MA10537-ICSAB1	1		
	08:47	MA10537-CCV1	1		
	08:55	MA10537-CCB1	1		
	09:03	ZZZZZZ	20		
	09:08	ZZZZZZ	5		
	09:12	FA1614-1F	5		
---------->	Last reportable sample/prep for job FA1614				
	09:17	ZZZZZZ	5		
	09:21	ZZZZZZ	4		
	09:25	MA10537-CCV2	1		
	09:29	MA10537-CCB2	1		
	10:08	MA10537-CCV3	1		
	10:16	MA10537-CCB3	1		
	10:22	MP24619-MB1	1		
	10:26	MP24619-B1	1		
	10:30	FA1702-1	1		(sample used for QC only; not part of login FA1614)
	10:34	MP24619-D1	1		
	10:39	MP24619-SD1	5		
	10:43	MP24619-PS1	1		
	10:47	MP24619-S1	1		
	10:51	MP24619-S2	1		
	10:56	ZZZZZZ	1		
	11:00	ZZZZZZ	1		
	11:04	MA10537-CCV4	1		
	11:08	MA10537-CCB4	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA1614
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB021513M1.ICP Date Analyzed: 02/15/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10537
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,Se

Time	Sample Description	Dilution Factor	PS Recov	Comments
11:31	MA10537-CCV5	1		
11:39	MA10537-CCB5	1		
11:43	MP24620-MB1	1		
11:48	MP24620-B1	1		
11:52	FA1735-1	1		(sample used for QC only; not part of login FA1614)
11:56	MP24620-D1	1		
12:00	MP24620-SD1	5		
12:04	MP24620-PS1	1		
12:08	MP24620-S1	1		
12:12	MP24620-S2	1		
12:16	ZZZZZZ	1		
12:20	ZZZZZZ	1		
12:24	MA10537-CCV6	1		
12:28	MA10537-CCB6	1		
12:32	ZZZZZZ	1		
12:36	ZZZZZZ	1		
12:40	ZZZZZZ	1		
12:45	ZZZZZZ	1		
12:49	ZZZZZZ	1		
12:53	ZZZZZZ	1		
12:57	ZZZZZZ	1		
13:01	ZZZZZZ	1		
13:05	ZZZZZZ	1		
13:09	ZZZZZZ	1		
13:13	MA10537-CCV7	1		
13:17	MA10537-CCB7	1		
13:22	ZZZZZZ	1		
13:26	ZZZZZZ	1		
13:30	ZZZZZZ	1		
13:34	ZZZZZZ	1		
13:38	ZZZZZZ	1		
13:42	ZZZZZZ	1		
13:46	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA1614
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB021513M1.ICP Date Analyzed: 02/15/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10537
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,Se

Time	Sample Description	Dilution Factor	PS Recov	Comments
14:02	MA10537-CCV8	1		
14:07	MA10537-CCB8	1		
14:11	MP24623-MB1	1		
14:16	MP24623-B1	1		
14:20	FA1761-8	1		(sample used for QC only; not part of login FA1614)
14:24	MP24623-D2	1		
14:28	MP24623-SD1	5		
14:32	MP24623-PS1	1		
14:36	MP24623-S1	1		
14:40	MP24623-S2	1		
14:44	MA10537-CRIA2	1		
14:48	MA10537-ICSA2	1		
14:52	MA10537-CCV9	1		
14:56	MA10537-CCB9	1		
15:00	MA10537-ICSAB2	1		
15:05	MA10537-CCV10	1		
15:09	MA10537-CCB10	1		

----------> Last reportable CCB for job FA1614
Refer to raw data for calibration curve and standards.

INTERNAL STANDARD SUMMARY

Login Number: FA1614
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB021513M1.ICP Date Analyzed: 02/15/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10537
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,Se

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
07:47	MA10537-STD1	7169	44218	8267	3072
07:51	MA10537-STD2	7099	43182	8281	2828
07:55	MA10537-STD3	6801	41426	8235	2523
08:00	MA10537-STD4	6529	40250	8131	2313
08:05	MA10537-HSTD1	6544	40494	8184	2305
08:12	MA10537-ICV1	6787	41470	8178	2509
08:18	MA10537-ICB1	7162 R	43896 R	8235 R	3045 R
08:22	MA10537-CRIA1	7023	42777	8168	2862
08:31	MA10537-ICSA1	6121	36827	7778	2222
08:38	MA10537-ICSAB1	6180	37211	7820	2194
08:47	MA10537-CCV1	6790	41514	7985	2501
08:55	MA10537-CCB1	7154	44097	8132	3011
09:03	ZZZZZZ	7077	43034	8242	2793
09:08	ZZZZZZ	7607	43955	9415	2355
09:12	FA1614-1F	8077	47766	10034	2222
09:17	ZZZZZZ	7005	41538	8263	2415
09:21	ZZZZZZ	6817	41023	7961	2540
09:25	MA10537-CCV2	6762	41566	7783	2505
09:29	MA10537-CCB2	7127	44255	7969	3022
10:08	MA10537-CCV3	6828	41148	7805	2472
10:16	MA10537-CCB3	7093	44021	7810	2997
10:22	MP24619-MB1	7049	42601	7947	2977
10:26	MP24619-B1	6815	41893	7850	2613
10:30	FA1702-1	6099	37440	7584	2084
10:34	MP24619-D1	6145	36738	7575	2116
10:39	MP24619-SD1	6638	40406	7701	2498
10:43	MP24619-PS1	6123	36599	7414	2073
10:47	MP24619-S1	6280	38346	7635	2061
10:51	MP24619-S2	6220	38215	7583	2056
10:56	ZZZZZZ	7105	43189	7978	2533
11:00	ZZZZZZ	7412	45184	8359	2527
11:04	MA10537-CCV4	6780	41676	7653	2487
11:08	MA10537-CCB4	7175	44258	7795	3032

INTERNAL STANDARD SUMMARY

Login Number: FA1614
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB021513M1.ICP Date Analyzed: 02/15/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10537
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,Se

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
11:31	MA10537-CCV5	6778	41576	7716	2500
11:39	MA10537-CCB5	7113	43772	7750	3004
11:43	MP24620-MB1	7196	44415	7863	3021
11:48	MP24620-B1	6851	42195	7766	2657
11:52	FA1735-1	7094	44244	7900	2938
11:56	MP24620-D1	7110	44102	7927	2928
12:00	MP24620-SD1	7140	44498	7880	3011
12:04	MP24620-PS1	7013	43215	7842	2804
12:08	MP24620-S1	6905	41760	7746	2617
12:12	MP24620-S2	6869	41922	7747	2624
12:16	ZZZZZZ	7096	44115	7911	2952
12:20	ZZZZZZ	7504	46368	8454	2849
12:24	MA10537-CCV6	6745	41374	7718	2490
12:28	MA10537-CCB6	7062	43910	7855	3009
12:32	ZZZZZZ	7050	42932	7736	2904
12:36	ZZZZZZ	6999	43769	7867	2875
12:40	ZZZZZZ	6694	41687	7827	2685
12:45	ZZZZZZ	7117	44588	7915	2979
12:49	ZZZZZZ	7070	43814	7930	2885
12:53	ZZZZZZ	7304	44198	8219	2783
12:57	ZZZZZZ	8736	54127	9953	2700
13:01	ZZZZZZ	6949	42950	7851	2833
13:05	ZZZZZZ	6832	42721	7825	2714
13:09	ZZZZZZ	7026	44041	7876	2915
13:13	MA10537-CCV7	6731	40978	7607	2488
13:17	MA10537-CCB7	7065	43365	7694	2991
13:22	ZZZZZZ	7055	43773	7940	2923
13:26	ZZZZZZ	6942	43428	7893	2851
13:30	ZZZZZZ	7131	44187	8047	2852
13:34	ZZZZZZ	7054	43249	7848	2887
13:38	ZZZZZZ	7078	43511	7853	2899
13:42	ZZZZZZ	7044	43859	7910	2889
13:46	ZZZZZZ	6971	43637	7862	2877

INTERNAL STANDARD SUMMARY

Login Number: FA1614
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB021513M1.ICP Date Analyzed: 02/15/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10537
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,Se

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
14:02	MA10537-CCV8	6706	41227	7664	2477
14:07	MA10537-CCB8	7005	43700	7745	2999
14:11	MP24623-MB1	7081	43149	7753	3062
14:16	MP24623-B1	6872	41497	7700	2650
14:20	FA1761-8	7826	48161	8722	2877
14:24	MP24623-D2	7805	48065	8777	2839
14:28	MP24623-SD1	7177	44489	7937	2957
14:32	MP24623-PS1	7711	46948	8661	2775
14:36	MP24623-S1	7486	46231	8616	2623
14:40	MP24623-S2	7475	46614	8714	2629
14:44	MA10537-CRIA2	6708	42216	7682	2849
14:48	MA10537-ICSA2	5958	36320	7293	2219
14:52	MA10537-CCV9	6530	40437	7400	2465
14:56	MA10537-CCB9	6877	43185	7603	3018
15:00	MA10537-ICSAB2	5901	36199	7274	2184
15:05	MA10537-CCV10	6440	40211	7446	2484
15:09	MA10537-CCB10	6874	42739	7524	3011

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: FA1614
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB021513M1.ICP Date Analyzed: 02/15/13 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA10537 Units: ug/l

Time:			08:18		08:55		09:29		10:16	
Sample ID:			ICB1		CCB1		CCB2		CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	15	2.6	<200	11.2	<200	20.3	<200	9.5	<200
Antimony	6.0	1.3	0.0	<6.0	-1.2	<6.0	-0.60	<6.0	-1.1	<6.0
Arsenic	10	1.6	0.10	<10	0.30	<10	0.80	<10	0.70	<10
Barium	200	1	anr							
Beryllium	4.0	.5								
Cadmium	5.0	.5	0.0	<5.0	0.10	<5.0	0.30	<5.0	0.10	<5.0
Calcium	1000	50	1.5	<1000	24.2	<1000	33.1	<1000	25.6	<1000
Chromium	10	1.8	-0.20	<10	0.0	<10	0.30	<10	0.0	<10
Cobalt	50	.5								
Copper	25	1	anr							
Iron	300	29	2.0	<300	6.5	<300	16.6	<300	6.9	<300
Lead	5.0	1.1	anr							
Magnesium	5000	74	2.9	<5000	10.6	<5000	32.4	<5000	23.3	<5000
Manganese	15	.7								
Molybdenum	50	.6								
Nickel	40	.5	anr							
Potassium	10000	200	anr							
Selenium	10	2	-0.80	<10	0.10	<10	0.10	<10	-1.0	<10
Silver	10	.5	anr							
Sodium	10000	500	anr							
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: FA1614
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB021513M1.ICP Date Analyzed: 02/15/13 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA10537 Units: ug/l

Time:			11:08		11:39		12:28		13:17	
Sample ID:			CCB4		CCB5		CCB6		CCB7	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	15	6.9	<200	4.9	<200	-0.50	<200	15.7	<200
Antimony	6.0	1.3	-1.3	<6.0	1.6	<6.0	1.0	<6.0	2.1	<6.0
Arsenic	10	1.6	0.70	<10	0.20	<10	0.0	<10	0.0	<10
Barium	200	1	anr							
Beryllium	4.0	.5								
Cadmium	5.0	.5	0.10	<5.0	0.20	<5.0	0.10	<5.0	0.20	<5.0
Calcium	1000	50	16.7	<1000	11.8	<1000	12.5	<1000	14.1	<1000
Chromium	10	1.8	-0.30	<10	0.10	<10	0.20	<10	0.30	<10
Cobalt	50	.5								
Copper	25	1	anr							
Iron	300	29	4.3	<300	5.2	<300	10.5	<300	14.8	<300
Lead	5.0	1.1	anr							
Magnesium	5000	74	18.4	<5000	14.5	<5000	13.3	<5000	11.7	<5000
Manganese	15	.7								
Molybdenum	50	.6								
Nickel	40	.5	anr							
Potassium	10000	200	anr							
Selenium	10	2	-0.20	<10	-0.90	<10	-0.50	<10	-0.60	<10
Silver	10	.5	anr							
Sodium	10000	500	anr							
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: FA1614
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB021513M1.ICP Date Analyzed: 02/15/13 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA10537 Units: ug/l

Time:			14:07		14:56		15:09	
Sample ID:			CCB8		CCB9		CCB10	
Metal	RL	IDL	raw	final	raw	final	raw	final
Aluminum	200	15	8.9	<200	7.8	<200	20.4	<200
Antimony	6.0	1.3	1.0	<6.0	1.5	<6.0	1.4	<6.0
Arsenic	10	1.6	-0.20	<10	-0.30	<10	0.0	<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
Calcium	1000	50	11.7	<1000	9.8	<1000	16.2	<1000
Chromium	10	1.8	0.0	<10	0.40	<10	0.40	<10
Cobalt	50	.5						
Copper	25	1	anr					
Iron	300	29	7.7	<300	12.8	<300	16.5	<300
Lead	5.0	1.1	anr					
Magnesium	5000	74	6.6	<5000	14.1	<5000	10.4	<5000
Manganese	15	.7						
Molybdenum	50	.6						
Nickel	40	.5	anr					
Potassium	10000	200	anr					
Selenium	10	2	-0.70	<10	-1.4	<10	-1.4	<10
Silver	10	.5	anr					
Sodium	10000	500	anr					
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: FA1614
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB021513M1.ICP Date Analyzed: 02/15/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA10537 Units: ug/l

Time:		08:12			08:47			09:25	
Sample ID:	ICV	ICV1		CCV	CCV1		CCV	CCV2	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	40900	102.3	40000	40600	101.5	40000	40600	101.5
Antimony	2000	1970	98.5	2000	2000	100.0	2000	2010	100.5
Arsenic	2000	1940	97.0	2000	2010	100.5	2000	2020	101.0
Barium	anr								
Beryllium									
Cadmium	2000	2010	100.5	2000	2060	103.0	2000	2050	102.5
Calcium	40000	42500	106.3	40000	40300	100.8	40000	39900	99.8
Chromium	2000	2010	100.5	2000	2050	102.5	2000	2040	102.0
Cobalt									
Copper	anr								
Iron	40000	41200	103.0	40000	39300	98.3	40000	38600	96.5
Lead	anr								
Magnesium	40000	41100	102.8	40000	39700	99.3	40000	39000	97.5
Manganese									
Molybdenum									
Nickel	anr								
Potassium	anr								
Selenium	2000	2010	100.5	2000	2020	101.0	2000	2020	101.0
Silver	anr								
Sodium	anr								
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: FA1614
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB021513M1.ICP Date Analyzed: 02/15/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA10537 Units: ug/l

Time:		10:08			11:04			11:31	
Sample ID:	CCV	CCV3		CCV	CCV4		CCV	CCV5	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	41300	103.3	40000	41300	103.3	40000	40400	101.0
Antimony	2000	1990	99.5	2000	2030	101.5	2000	2030	101.5
Arsenic	2000	1990	99.5	2000	2030	101.5	2000	2040	102.0
Barium	anr								
Beryllium									
Cadmium	2000	2060	103.0	2000	2080	104.0	2000	2070	103.5
Calcium	40000	40700	101.8	40000	38900	97.3	40000	40800	102.0
Chromium	2000	2100	105.0	2000	2070	103.5	2000	2060	103.0
Cobalt									
Copper	anr								
Iron	40000	39000	97.5	40000	36500	91.3	40000	40500	101.3
Lead	anr								
Magnesium	40000	39500	98.8	40000	36600	91.5	40000	40600	101.5
Manganese									
Molybdenum									
Nickel	anr								
Potassium	anr								
Selenium	2000	1980	99.0	2000	2030	101.5	2000	2040	102.0
Silver	anr								
Sodium	anr								
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: FA1614
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB021513M1.ICP Date Analyzed: 02/15/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA10537 Units: ug/l

Time:		12:24			13:13			14:02	
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	40800	102.0
Antimony	2000	2040	102.0	2000	2020	101.0	2000	2040	102.0
Arsenic	2000	2040	102.0	2000	2020	101.0	2000	2040	102.0
Barium	anr								
Beryllium									
Cadmium	2000	2070	103.5	2000	2050	102.5	2000	2070	103.5
Calcium	40000	41100	102.8	40000	40800	102.0	40000	41500	103.8
Chromium	2000	2060	103.0	2000	2050	102.5	2000	2070	103.5
Cobalt									
Copper	anr								
Iron	40000	41100	102.8	40000	41400	103.5	40000	41300	103.3
Lead	anr								
Magnesium	40000	41100	102.8	40000	41200	103.0	40000	41500	103.8
Manganese									
Molybdenum									
Nickel	anr								
Potassium	anr								
Selenium	2000	2040	102.0	2000	2020	101.0	2000	2050	102.5
Silver	anr								
Sodium	anr								
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: FA1614
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB021513M1.ICP Date Analyzed: 02/15/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA10537 Units: ug/l

Time:		14:52			15:05	
Sample ID:	CCV	CCV9		CCV	CCV10	
Metal	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	40400	101.0	40000	40300	100.8
Antimony	2000	2100	105.0	2000	2170	108.5
Arsenic	2000	2080	104.0	2000	2150	107.5
Barium	anr					
Beryllium						
Cadmium	2000	2070	103.5	2000	2100	105.0
Calcium	40000	40900	102.3	40000	40900	102.3
Chromium	2000	2050	102.5	2000	2060	103.0
Cobalt						
Copper	anr					
Iron	40000	43000	107.5	40000	43600	109.0
Lead	anr					
Magnesium	40000	42000	105.0	40000	42300	105.8
Manganese						
Molybdenum						
Nickel	anr					
Potassium	anr					
Selenium	2000	2100	105.0	2000	2160	108.0
Silver	anr					
Sodium	anr					
Strontium						
Thallium						
Tin						
Titanium						
Vanadium						
Zinc	anr					

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

HIGH STANDARD CHECK SUMMARY

Login Number: FA1614
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB021513M1.ICP Date Analyzed: 02/15/13 Methods: SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA10537 Units: ug/l

Time:		08:05	
Sample ID:	HSTD	HSTD1	
Metal	True	Results	% Rec
Aluminum	80000	79900	99.9
Antimony	4000	3950	98.8
Arsenic	4000	3960	99.0
Barium	anr		
Beryllium			
Cadmium	4000	3950	98.8
Calcium	80000	79400	99.3
Chromium	4000	3920	98.0
Cobalt			
Copper	anr		
Iron	80000	78400	98.0
Lead	anr		
Magnesium	80000	78800	98.5
Manganese			
Molybdenum			
Nickel	anr		
Potassium	anr		
Selenium	4000	3940	98.5
Silver	anr		
Sodium	anr		
Strontium			
Thallium			
Tin			
Titanium			
Vanadium			
Zinc	anr		

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

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: FA1614
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB021513M1.ICP Date Analyzed: 02/15/13 Methods: SW846 6010C
QC Limits: CRI 70-130% CRIA 70-130% Run ID: MA10537 Units: ug/l

Time:			08:22		14:44	
Sample ID:	CRI	CRIA	CRIA1		CRIA2	
Metal	True	True	Results	% Rec	Results	% Rec
Aluminum	400	200	207	103.5	209	104.5
Antimony	10	5.0	4.1	82.0	6.9	138.0*(a
Arsenic	20	10	10.4	104.0	10.3	103.0
Barium	400	200	anr			
Beryllium	10	5.0				
Cadmium	10	5.0	5.3	106.0	5.4	108.0
Calcium	2000	1000	1050	105.0	1060	106.0
Chromium	20	10	10.6	106.0	10.3	103.0
Cobalt	100	50				
Copper	50	25	anr			
Iron	600	300	309	103.0	373	124.3
Lead	10	5.0	anr			
Magnesium	10000	5000	5140	102.8	5390	107.8
Manganese	30	15				
Molybdenum	100	50				
Nickel	80	40	anr			
Potassium	20000	10000	anr			
Selenium	20	10	9.2	92.0	9.9	99.0
Silver	20	10	anr			
Sodium	20000	10000	anr			
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: FA1614
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB021513M1.ICP Date Analyzed: 02/15/13 Methods: SW846 6010C
QC Limits: 80 to 120 % Recovery Run ID: MA10537 Units: ug/l

Time:			08:31		08:38		14:48		15:00	
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	507000	101.4	499000	99.8	492000	98.4
Antimony		1000	-1.5		1000	100.0	1.1		1080	108.0
Arsenic		1000	-1.8		1010	101.0	-0.50		1070	107.0
Barium		500	-0.50		483	96.6	-0.10		482	96.4
Beryllium		500	-0.10		454	90.8	-0.10		490	98.0
Cadmium		1000	-0.80		882	88.2	-2.1		892	89.2
Calcium	500000	500000	482000	96.4	466000	93.2	487000	97.4	472000	94.4
Chromium		500	-0.30		452	90.4	0.20		450	90.0
Cobalt		500	0.30		436	87.2	0.60		443	88.6
Copper		500	-1.1		483	96.6	1.6		512	102.4
Iron	200000	200000	182000	91.0	177000	88.5	199000	99.5	194000	97.0
Lead		1000	-0.60		875	87.5	-4.8		832	83.2
Magnesium	500000	500000	477000	95.4	468000	93.6	504000	100.8	497000	99.4
Manganese		500	-0.30		456	91.2	0.90		481	96.2
Molybdenum		1000	-0.20		938	93.8	0.0		1030	103.0
Nickel		1000	-0.10		857	85.7	0.90		925	92.5
Potassium			165		52.8		161		47.5	
Selenium		1000	0.0		983	98.3	1.0		1050	105.0
Silver		1000	-0.70		921	92.1	-1.2		959	95.9
Sodium			125		115		169		136	
Strontium		1000	4.2		1050	105.0	3.8		995	99.5
Thallium		1000	0.0		942	94.2	1.6		997	99.7
Tin		1000	-0.40		903	90.3	2.4		942	94.2
Titanium		1000	-2.7		1010	101.0	-2.6		1100	110.0
Vanadium		500	0.20		455	91.0	0.30		466	93.2
Zinc		1000	-0.70		885	88.5	14.8		892	89.2

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

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA1614
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA021813M1.ICP Date Analyzed: 02/18/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10541
Parameters: K,Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
08:09	MA10541-STD1	1		STDA
08:13	MA10541-STD2	1		STDB
08:18	MA10541-STD3	1		STDC
08:22	MA10541-STD4	1		STDD
08:26	MA10541-HSTD1	1		
08:33	MA10541-ICV1	1		
08:40	MA10541-ICB1	1		
09:05	MA10541-CRIA1	1		
09:13	MA10541-ICSA1	1		
09:20	MA10541-ICSAB1	1		
09:30	MA10541-CCV1	1		
09:39	MA10541-CCB1	1		
10:02	MA10541-CCV2	1		
10:11	MA10541-CCB2	1		
10:15	MP24625-MB1	1		
10:20	MP24625-B1	1		
10:24	FA1719-9	1		(sample used for QC only; not part of login FA1614)
10:28	MP24625-D1	1		
10:33	MP24625-SD1	5		
10:37	MP24625-PS1	1		
10:42	MP24625-S1	1		
10:46	MP24625-S2	1		
10:59	MA10541-CCV3	1		
11:04	MA10541-CCB3	1		
11:08	ZZZZZZ	1		
11:22	ZZZZZZ	25		
11:26	FA1614-1F	25		
----------> Last reportable sample/prep for job FA1614				
11:31	ZZZZZZ	20		
11:35	FA1702-1	5		(sample used for QC only; not part of login FA1614)
11:40	MP24619-D1	5		
11:44	MP24619-S1	5		
11:49	MP24619-S2	5		
11:53	MA10541-CCV4	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA1614
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA021813M1.ICP Date Analyzed: 02/18/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10541
Parameters: K,Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
11:58	MA10541-CCB4	1		
12:02	MP24619-PS1	5		
12:07	MP24619-SD1	25		
12:11	MP24627-MB1	1		
12:16	MP24627-B1	1		
12:20	FA1812-1	1		(sample used for QC only; not part of login FA1614)
12:25	MP24627-D1	1		
12:29	MP24627-SD1	5		
12:34	MP24627-PS1	1		
12:38	MP24627-S1	1		
12:43	MP24627-S2	1		
12:47	MA10541-CCV5	1		
12:51	MA10541-CCB5	1		
12:57	ZZZZZZ	1		
13:02	ZZZZZZ	1		
13:06	ZZZZZZ	1		
13:11	ZZZZZZ	1		
13:15	ZZZZZZ	1		
13:20	ZZZZZZ	1		
13:24	ZZZZZZ	1		
13:29	ZZZZZZ	1		
13:33	ZZZZZZ	1		
13:38	ZZZZZZ	1		
13:42	MA10541-CCV6	1		
13:46	MA10541-CCB6	1		
14:18	MA10541-CCV7	1		
14:27	MA10541-CCB7	1		
14:31	ZZZZZZ	1		
14:36	ZZZZZZ	1		
14:41	MP24630-MB1	1		
14:45	MP24630-B1	1		
14:50	FA1784-1	1		(sample used for QC only; not part of login FA1614)
14:54	MP24630-D1	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA1614
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA021813M1.ICP Date Analyzed: 02/18/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10541
Parameters: K,Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
14:59	MP24630-SD1	5		
15:03	MP24630-PS1	1		
15:08	MP24630-S1	1		
15:12	MP24630-S2	1		
15:16	MA10541-CCV8	1		
15:20	MA10541-CCB8	1		
15:25	ZZZZZZ	1		
15:29	ZZZZZZ	1		
15:34	ZZZZZZ	1		
15:38	ZZZZZZ	1		
15:43	ZZZZZZ	1		
15:47	ZZZZZZ	1		
15:52	ZZZZZZ	1		
15:56	ZZZZZZ	1		
16:01	ZZZZZZ	1		
16:06	ZZZZZZ	1		
16:10	MA10541-CCV9	1		
16:14	MA10541-CCB9	1		
16:19	ZZZZZZ	1		
16:23	ZZZZZZ	1		
16:28	ZZZZZZ	1		
16:47	ZZZZZZ	1		
16:52	MA10541-CRIA2	1		
16:56	MA10541-ICSA2	1		
17:01	MA10541-ICSAB2	1		
17:06	MA10541-CCV10	1		
17:10	MA10541-CCB10	1		
---------->	Last reportable CCB for job FA1614			
17:14	MA10541-CCV11	1		
17:19	MA10541-CCB11	1		

Refer to raw data for calibration curve and standards.

INTERNAL STANDARD SUMMARY

Login Number: FA1614
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA021813M1.ICP Date Analyzed: 02/18/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10541
Parameters: K,Na

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
08:09	MA10541-STD1	2147	17856	6767	1236
08:13	MA10541-STD2	2098	17268	6684	1131
08:18	MA10541-STD3	2026	16604	6585	1025
08:22	MA10541-STD4	1959	16213	6543	946
08:26	MA10541-HSTD1	1957	16118	6491	945
08:33	MA10541-ICV1	2040	16540	6634	1021
08:40	MA10541-ICB1	2133 R	17308 R	6706 R	1208 R
09:05	MA10541-CRIA1	2089	16537	6635	1128
09:13	MA10541-ICSA1	1843	14098	6293	848
09:20	MA10541-ICSAB1	1860	14199	6347	845
09:30	MA10541-CCV1	2018	15622	6549	984
09:39	MA10541-CCB1	2107	16374	6592	1161
10:02	MA10541-CCV2	1987	15333	6546	969
10:11	MA10541-CCB2	2077	16129	6665	1146
10:15	MP24625-MB1	2105	16410	6769	1160
10:20	MP24625-B1	2042	15659	6702	1028
10:24	FA1719-9	2211	16953	7089	1107
10:28	MP24625-D1	2214	16955	7085	1102
10:33	MP24625-SD1	2135	16375	6787	1137
10:37	MP24625-PS1	2169	16605	7064	1061
10:42	MP24625-S1	2120	16162	6960	1003
10:46	MP24625-S2	2156	16390	7083	1001
10:59	MA10541-CCV3	1999	15157	6572	963
11:04	MA10541-CCB3	2076	15797	6617	1132
11:08	ZZZZZZ	2913	21692	9582	1016
11:22	ZZZZZZ	2081	15367	6718	984
11:26	FA1614-1F	2105	15634	6880	961
11:31	ZZZZZZ	2044	15085	6684	983
11:35	FA1702-1	1879	14136	6331	898
11:40	MP24619-D1	1882	14201	6382	901
11:44	MP24619-S1	1914	14395	6381	898
11:49	MP24619-S2	1890	14151	6347	879
11:53	MA10541-CCV4	1968	14687	6448	938

INTERNAL STANDARD SUMMARY

Login Number: FA1614
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA021813M1.ICP Date Analyzed: 02/18/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10541
Parameters: K,Na

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
11:58	MA10541-CCB4	2071	15447	6536	1112
12:02	MP24619-PS1	1874	14022	6295	892
12:07	MP24619-SD1	1967	14828	6519	1010
12:11	MP24627-MB1	2057	15861	6679	1124
12:16	MP24627-B1	1979	14859	6619	986
12:20	FA1812-1	2287	16996	7623	1003
12:25	MP24627-D1	2248	16834	7446	1009
12:29	MP24627-SD1	2095	15800	6635	1062
12:34	MP24627-PS1	2253	17177	7511	995
12:38	MP24627-S1	2126	16318	7148	973
12:43	MP24627-S2	2170	16598	7344	964
12:47	MA10541-CCV5	1946	14873	6501	939
12:51	MA10541-CCB5	2032	15676	6620	1108
12:57	ZZZZZZ	2229	16886	7425	1006
13:02	ZZZZZZ	2322	17609	7505	1039
13:06	ZZZZZZ	5004 !	38187 !	16816 !	893
13:11	ZZZZZZ	2502	19688	8582	974
13:15	ZZZZZZ	2061	15894	6752	1046
13:20	ZZZZZZ	1850	14536	7179	568
13:24	ZZZZZZ	2075	16042	6819	1060
13:29	ZZZZZZ	2059	15822	6636	1042
13:33	ZZZZZZ	2056	15902	6629	1061
13:38	ZZZZZZ	1870	14748	7352	543
13:42	MA10541-CCV6	1935	15017	6518	937
13:46	MA10541-CCB6	2016	15608	6582	1103
14:18	MA10541-CCV7	1891	14717	6351	932
14:27	MA10541-CCB7	1990	15718	6581	1102
14:31	ZZZZZZ	2457	19350	8751	909
14:36	ZZZZZZ	2526	19527	8582	928
14:41	MP24630-MB1	1994	15977	6512	1123
14:45	MP24630-B1	1917	15222	6528	978
14:50	FA1784-1	1886	15218	6631	991
14:54	MP24630-D1	1889	14996	6441	986

INTERNAL STANDARD SUMMARY

Login Number: FA1614
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA021813M1.ICP Date Analyzed: 02/18/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10541
Parameters: K,Na

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
14:59	MP24630-SD1	1954	15465	6406	1075
15:03	MP24630-PS1	1859	14903	6380	973
15:08	MP24630-S1	1839	14869	6460	925
15:12	MP24630-S2	1840	14885	6541	924
15:16	MA10541-CCV8	1899	15006	6457	933
15:20	MA10541-CCB8	1973	15639	6354	1111
15:25	ZZZZZZ	1816	14756	6448	947
15:29	ZZZZZZ	1956	15741	6808	982
15:34	ZZZZZZ	1863	14997	6550	981
15:38	ZZZZZZ	2560	20166	8722	914
15:43	ZZZZZZ	2483	19919	8695	913
15:47	ZZZZZZ	1954	15904	6641	1076
15:52	ZZZZZZ	1985	15937	6697	1064
15:56	ZZZZZZ	1885	14871	6429	929
16:01	ZZZZZZ	1924	15490	6475	1046
16:06	ZZZZZZ	1940	15678	6614	1051
16:10	MA10541-CCV9	1888	14971	6473	927
16:14	MA10541-CCB9	1975	15725	6398	1111
16:19	ZZZZZZ	1849	15061	6431	1001
16:23	ZZZZZZ	1751	14148	6312	875
16:28	ZZZZZZ	1986	15956	6661	1100
16:47	ZZZZZZ	1952	15751	6661	1060
16:52	MA10541-CRIA2	1943	15360	6335	1059
16:56	MA10541-ICSA2	1715	13319	5950	802
17:01	MA10541-ICSAB2	1722	13535	6111	793
17:06	MA10541-CCV10	1886	15147	6421	931
17:10	MA10541-CCB10	1989	16019	6597	1108
17:14	MA10541-CCV11	1886	14903	6305	935
17:19	MA10541-CCB11	1976	15796	6329	1117

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: FA1614
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA021813M1.ICP Date Analyzed: 02/18/13 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA10541 Units: ug/l

Time:			08:40		09:39		10:11		11:04	
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	5.0	.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	-22	<10000	-38	<10000	-1.4	<10000	16.2	<10000
Selenium	10	2	anr							
Silver	10	.5	anr							
Sodium	10000	500	0.10	<10000	2.6	<10000	2.9	<10000	8.7	<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: FA1614
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA021813M1.ICP Date Analyzed: 02/18/13 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA10541 Units: ug/l

Time:			11:58		12:51		13:46		14:27	
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	5.0	.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	20.7	<10000	3.4	<10000	19.9	<10000	15.4	<10000
Selenium	10	2	anr							
Silver	10	.5	anr							
Sodium	10000	500	18.4	<10000	17.5	<10000	20.1	<10000	10.8	<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: FA1614
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA021813M1.ICP Date Analyzed: 02/18/13 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA10541 Units: ug/l

Time:			15:20		16:14		17:10	
Sample ID:			CCB8		CCB9		CCB10	
Metal	RL	IDL	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	5.0	.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	6.2	<10000	4.2	<10000	36.3	<10000
Selenium	10	2	anr					
Silver	10	.5	anr					
Sodium	10000	500	8.1	<10000	11.0	<10000	14.1	<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

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA1614
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA021813M1.ICP Date Analyzed: 02/18/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA10541 Units: ug/l

Time:		08:33			09:30			10:02	
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	40000	41700	104.3	40000	41600	104.0	40000	41100	102.8
Selenium	anr								
Silver	anr								
Sodium	40000	38100	95.3	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

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA1614
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA021813M1.ICP Date Analyzed: 02/18/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA10541 Units: ug/l

Time:		10:59			11:53			12:47	
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	anr								
Nickel	anr								
Potassium	40000	41400	103.5	40000	41700	104.3	40000	42000	105.0
Selenium	anr								
Silver	anr								
Sodium	40000	41400	103.5	40000	41600	104.0	40000	42100	105.3
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: FA1614
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA021813M1.ICP Date Analyzed: 02/18/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA10541 Units: ug/l

Time:		13:42			14:18			15:16	
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	anr								
Nickel	anr								
Potassium	40000	41800	104.5	40000	40700	101.8	40000	40600	101.5
Selenium	anr								
Silver	anr								
Sodium	40000	41900	104.8	40000	40800	102.0	40000	40700	101.8
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: FA1614
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA021813M1.ICP Date Analyzed: 02/18/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA10541 Units: ug/l

Time:		16:10			17:06	
Sample ID:	CCV	CCV9		CCV	CCV10	
Metal	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	40000	40600	101.5	40000	40400	101.0
Selenium	anr					
Silver	anr					
Sodium	40000	40600	101.5	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: FA1614
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA021813M1.ICP Date Analyzed: 02/18/13 Methods: SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA10541 Units: ug/l

Time:		08:26	
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	80000	80500	100.6
Selenium	anr		
Silver	anr		
Sodium	80000	80400	100.5
Strontium			
Thallium	anr		
Tin			
Titanium			
Vanadium	anr		
Zinc	anr		

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

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: FA1614
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA021813M1.ICP Date Analyzed: 02/18/13 Methods: SW846 6010C
QC Limits: CRI 70-130% CRIA 70-130% Run ID: MA10541 Units: ug/l

Time:			09:05		16:52	
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	10400	104.0	10400	104.0
Selenium	20	10	anr			
Silver	20	10	anr			
Sodium	20000	10000	10400	104.0	10300	103.0
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: FA1614
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA021813M1.ICP Date Analyzed: 02/18/13 Methods: SW846 6010C
QC Limits: 80 to 120 % Recovery Run ID: MA10541 Units: ug/l

Time:			09:13		09:20		16:56		17:01	
Sample ID:	ICSA	ICSAB	ICSA1		ICSAB1		ICSA2		ICSAB2	
Metal	True	True	Results	% Rec	Results	% Rec	Results	% Rec	Results	% Rec
Aluminum	500000	500000	499000	99.8	493000	98.6	534000	106.8	530000	106.0
Antimony		1000	-0.10		1000	100.0	-0.90		1040	104.0
Arsenic		1000	0.0		1000	100.0	-2.8		1040	104.0
Barium		500	0.0		497	99.4	-0.40		489	97.8
Beryllium		500	-0.10		475	95.0	-0.10		470	94.0
Cadmium		1000	-0.40		847	84.7	0.0		875	87.5
Calcium	500000	500000	494000	98.8	485000	97.0	482000	96.4	472000	94.4
Chromium		500	-0.10		454	90.8	-0.20		445	89.0
Cobalt		500	-0.60		438	87.6	-0.40		423	84.6
Copper		500	0.0		542	108.4	1.5		496	99.2
Iron	200000	200000	183000	91.5	178000	89.0	190000	95.0	185000	92.5
Lead		1000	-0.20		881	88.1	1.9		863	86.3
Magnesium	500000	500000	525000	105.0	522000	104.4	514000	102.8	505000	101.0
Manganese		500	0.60		479	95.8	0.70		455	91.0
Molybdenum		1000	0.30		1010	101.0	1.1		964	96.4
Nickel		1000	0.70		845	84.5	1.0		852	85.2
Potassium			-26		-40		94.8		71.4	
Selenium		1000	0.0		951	95.1	-0.10		1020	102.0
Silver		1000	0.0		1070	107.0	-0.40		932	93.2
Sodium			77.4		75.7		115		94.8	
Strontium		1000	4.2		1080	108.0	4.3		1070	107.0
Thallium		1000	1.3		946	94.6	3.1		932	93.2
Tin		1000	0.0		913	91.3	0.40		905	90.5
Titanium		1000	-1.9		1100	110.0	-1.1		1030	103.0
Vanadium		500	-0.80		495	99.0	-0.80		453	90.6
Zinc		1000	0.50		865	86.5	-0.10		868	86.8

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

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: FA1614
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

QC Batch ID: MP24608
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 02/13/13

Metal	RL	IDL	MDL	MB raw	final
Aluminum	200	15	15	2.8	<200
Antimony	6.0	1.3	1.3	0.80	<6.0
Arsenic	10	1.6	2.5	0.0	<10
Barium	200	1	1		
Beryllium	4.0	.5	.5		
Cadmium	5.0	.5	.5	0.0	<5.0
Calcium	1000	50	50	10.2	<1000
Chromium	10	1.8	2	-0.10	<10
Cobalt	50	.5	.5		
Copper	25	1	1		
Iron	300	29	29	2.8	<300
Lead	5.0	1.1	1.1		
Magnesium	5000	74	74	12.2	<5000
Manganese	15	.7	.7		
Molybdenum	50	.6	1		
Nickel	40	.5	.5		
Potassium	10000	200	200	-25	<10000
Selenium	10	2	2	-0.10	<10
Silver	10	.5	.5		
Sodium	10000	500	500	4.8	<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 MP24608: FA1614-1F

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: FA1614
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

QC Batch ID: MP24608
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date:			02/13/13					02/13/13	
Metal	FA1672-1 Original	DUP	RPD	QC Limits	FA1672-1 Original	MS	Spikelot MPFLICP1	% Rec	QC Limits
Aluminum	125	126	0.8	0-20	125	28700	27000	105.8	80-120
Antimony	1.8	1.4	25.0 (a)	0-20	1.8	529	500	105.4	80-120
Arsenic	0.0	0.0	NC	0-20	0.0	2040	2000	102.0	80-120
Barium									
Beryllium									
Cadmium	0.0	0.0	NC	0-20	0.0	49.8	50	99.6	80-120
Calcium	85900	85100	0.9	0-20	85900	107000	25000	84.4	80-120
Chromium	0.0	0.0	NC	0-20	0.0	213	200	106.5	80-120
Cobalt									
Copper	anr								
Iron	882	874	0.9	0-20	882	28600	26000	106.6	80-120
Lead	anr								
Magnesium	20900	20700	1.0	0-20	20900	46100	25000	100.8	80-120
Manganese	anr								
Molybdenum	anr								
Nickel	anr								
Potassium	3540	3490	1.4	0-20	3540	30300	25000	107.0	80-120
Selenium	0.0	0.0	NC	0-20	0.0	2060	2000	103.0	80-120
Silver	anr								
Sodium	31400	31200	0.6	0-20	31400	56300	25000	99.6	80-120
Strontium									
Thallium									
Tin									
Titanium									
Vanadium									
Zinc	anr								

Associated samples MP24608: FA1614-1F

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: FA1614
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

QC Batch ID: MP24608
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 02/13/13

Metal	FA1672-1 Original	MSD	Spikelot MPFLICP1	% Rec	MSD RPD	QC Limit
Aluminum	125	29300	27000	108.1	2.1	20
Antimony	1.8	539	500	107.4	1.9	20
Arsenic	0.0	2080	2000	104.0	1.9	20
Barium						
Beryllium						
Cadmium	0.0	50.6	50	101.2	1.6	20
Calcium	85900	110000	25000	96.4	2.8	20
Chromium	0.0	217	200	108.5	1.9	20
Cobalt						
Copper	anr					
Iron	882	29100	26000	108.5	1.7	20
Lead	anr					
Magnesium	20900	47000	25000	104.4	1.9	20
Manganese	anr					
Molybdenum	anr					
Nickel	anr					
Potassium	3540	30800	25000	109.0	1.6	20
Selenium	0.0	2110	2000	105.5	2.4	20
Silver	anr					
Sodium	31400	58200	25000	107.2	3.3	20
Strontium						
Thallium						
Tin						
Titanium						
Vanadium						
Zinc	anr					

Associated samples MP24608: FA1614-1F

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: FA1614
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

QC Batch ID: MP24608
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 02/13/13

Metal	BSP Result	Spikelot MPFLICP1	% Rec	QC Limits
Aluminum	28900	27000	107.0	80-120
Antimony	538	500	107.6	80-120
Arsenic	2050	2000	102.5	80-120
Barium				
Beryllium				
Cadmium	52.1	50	104.2	80-120
Calcium	27100	25000	108.4	80-120
Chromium	220	200	110.0	80-120
Cobalt				
Copper	anr			
Iron	28600	26000	110.0	80-120
Lead	anr			
Magnesium	26600	25000	106.4	80-120
Manganese	anr			
Molybdenum	anr			
Nickel	anr			
Potassium	27300	25000	109.2	80-120
Selenium	2090	2000	104.5	80-120
Silver	anr			
Sodium	27300	25000	109.2	80-120
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc	anr			

Associated samples MP24608: FA1614-1F

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

SERIAL DILUTION RESULTS SUMMARY

Login Number: FA1614
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

QC Batch ID: MP24608
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 02/13/13

Metal	FA1672-1 Original	SDL 1:5	%DIF	QC Limits
Aluminum	125	131	4.5	0-10
Antimony	1.80	0.00	100.0(a)	0-10
Arsenic	0.00	0.00	NC	0-10
Barium				
Beryllium				
Cadmium	0.00	0.00	NC	0-10
Calcium	85900	85700	0.2	0-10
Chromium	0.00	0.00	NC	0-10
Cobalt				
Copper	anr			
Iron	882	868	1.6	0-10
Lead	anr			
Magnesium	20900	21000	0.6	0-10
Manganese	anr			
Molybdenum	anr			
Nickel	anr			
Potassium	3540	3370	4.7	0-10
Selenium	0.00	0.00	NC	0-10
Silver	anr			
Sodium	31400	30300	3.5	0-10
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc	anr			

Associated samples MP24608: FA1614-1F

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: FA1614
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

QC Batch ID: MP24608
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 02/13/13

Metal	Sample ml	Final ml	FA1672-1 Raw	Corr.**	PS ug/l	Spike ml	Spike ug/ml	Spike ug/l	% Rec	QC Limits
Aluminum	9.8	10	124.9	122.402	2690	0.2	125	2500	102.7	80-120
Antimony	9.8	10	1.8	1.764	109.9	0.2	5	100	108.1	80-120
Arsenic	9.8	10	0	0	104.9	0.2	5	100	104.9	80-120
Barium										
Beryllium										
Cadmium	9.8	10	0	0	53.5	0.2	2.5	50	107.0	80-120
Calcium	9.8	10	85900	84182	90150	0.2	250	5000	119.4	80-120
Chromium	9.8	10	0	0	54.7	0.2	2.5	50	109.4	80-120
Cobalt										
Copper										
Iron	9.8	10	882	864.36	4029	0.2	150	3000	105.5	80-120
Lead										
Magnesium	9.8	10	20850	20433	25510	0.2	250	5000	101.5	80-120
Manganese										
Molybdenum										
Nickel										
Potassium	9.8	10	3535	3464.3	14310	0.2	500	10000	108.5	80-120
Selenium	9.8	10	0	0	107	0.2	5	100	107.0	80-120
Silver										
Sodium	9.8	10	31420	30791.6	41950	0.2	500	10000	111.6	80-120
Strontium										
Thallium										
Tin										
Titanium										
Vanadium										
Zinc										

Associated samples MP24608: FA1614-1F

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: FA1614
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	GN54160	5.0	0.0	mg/l	250	254	102.0	90-113%
Chloride	GP20957/GN54083	2.0	0.0	mg/l	50	51.3	102.6	90-110%
Fluoride	GP20957/GN54083	0.20	0.0	mg/l	2.5	2.45	98.0	90-110%
Nitrogen, Nitrate	GP20957/GN54083	0.10	0.0	mg/l	2.5	2.54	101.6	90-110%
Phosphate, Ortho	GP20946/GN54070	0.10	0.0	mg/l	0.300	0.31	104.4	83-116%
Phosphorus, Total	GP20996/GN54231	0.10	0.0	mg/l	.300	0.27	90.8	81-118%
Solids, Total Dissolved	GN54100	100	0.0	mg/l				
Specific Conductivity	GN54072	1.0	0.0	umhos/cm				
Sulfate	GP20957/GN54083	2.0	0.0	mg/l	50	52.1	104.2	90-110%

Associated Samples:
Batch GN54072: FA1614-1
Batch GN54100: FA1614-1
Batch GN54160: FA1614-1
Batch GP20946: FA1614-1F
Batch GP20957: FA1614-1
Batch GP20996: FA1614-1
(*) Outside of QC limits

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: FA1614
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	GN54160	FA1526-1	mg/l	75.7	75.5	0.3	0-20%
Phosphate, Ortho	GP20946/GN54070	FA1614-1F	mg/l	1630	1610	1.2	0-26%
Phosphorus, Total	GP20996/GN54231	FA1718-1	mg/l	49.0	48.0	2.1	0-22%
Solids, Total Dissolved	GN54100	FA1507-7	mg/l	322	318	1.3	0-5%
Specific Conductivity	GN54072	FA1614-1	umhos/cm	19000	19100	0.3	0-10%
pH	GN54071	FA1614-1	su	2.31	2.32	0.4	0-10%

Associated Samples:
Batch GN54071: FA1614-1
Batch GN54072: FA1614-1
Batch GN54100: FA1614-1
Batch GN54160: FA1614-1
Batch GP20946: FA1614-1F
Batch GP20996: FA1614-1
(*) Outside of QC limits

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: FA1614
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
Alkalinity, Total as CaCO3	GN54160	FA1526-1	mg/l	75.7	250	318	96.8	90-113%
Chloride	GP20957/GN54083	FA1616-1	mg/l	0.80 U	50	50.2	100.4	90-110%
Fluoride	GP20957/GN54083	FA1616-1	mg/l	0.20	2.5	2.1	76.0N(a)	90-110%
Nitrogen, Nitrate	GP20957/GN54083	FA1616-1	mg/l	0.050 U	2.5	2.4	96.0	90-110%
Phosphate, Ortho	GP20946/GN54070	FA1614-1F	mg/l	1630	0.300	2980	90.2	83-116%
Phosphorus, Total	GP20996/GN54231	FA1718-1	mg/l	49.0	.300	49.5	167.0*(b)	81-118%
Sulfate	GP20957/GN54083	FA1616-1	mg/l	0.60 U	50	48.0	96.0	90-110%

Associated Samples:
Batch GN54160: FA1614-1
Batch GP20946: FA1614-1F
Batch GP20957: FA1614-1
Batch GP20996: FA1614-1
(*) 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: FA1614
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	GP20957/GN54083	FA1616-1	mg/l	0.80 U	50	50.6	0.8	
Fluoride	GP20957/GN54083	FA1616-1	mg/l	0.20	2.5	2.1	0.0N(a)	
Nitrogen, Nitrate	GP20957/GN54083	FA1616-1	mg/l	0.050 U	2.5	2.4	0.0	
Phosphorus, Total	GP20996/GN54231	FA1718-1	mg/l	49.0	.300	49.5	0.0(b)	22%
Sulfate	GP20957/GN54083	FA1616-1	mg/l	0.60 U	50	48.1	0.2	

Associated Samples:
Batch GP20957: FA1614-1
Batch GP20996: FA1614-1
(*) 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.

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA1614
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: 313090201.TXT Date Analyzed: 02/09/13 Methods: EPA 300/SW846 9056A
Analyst: AA Run ID: GN54083
Parameters: Chloride,Fluoride,Nitrogen, Nitrate,Sulfate

Time	Sample Description	Dilution Factor	PS Recov	Comments
12:49	GN54083-CCV1	1		
13:05	GN54083-CCB1	1		
13:21	GP20957-MB1	1		
13:37	GP20957-B1	1		
14:24	FA1614-1	200		
14:40	FA1616-1	1		(sample used for QC only; not part of login FA1614)
14:56	ZZZZZZ	1		
15:12	ZZZZZZ	50		
15:28	ZZZZZZ	25		
15:44	GN54083-CCV2	1		
16:00	GN54083-CCB2	1		
16:16	GP20957-S1	1		
16:32	GP20957-S2	1		
16:47	GN54083-CCV3	1		
17:03	GN54083-CCB3	1		

Refer to raw data for calibration curve and standards.

Instrument QC Summary
Inorganics Analyses

Login Number: FA1614
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: 313090201.TXT Date Analyzed: 02/09/13 Methods: EPA 300/SW846 9056A
Run ID: GN54083 Units: mg/l

Sample Number	Parameter	Result	RL	IDL/MDL	True Value	% Recov.	QC Limits
GN54083-CCV1	Fluoride	2.4	0.20	0.060	2.5	96.0	90-110
GN54083-CCV1	Chloride	51.3	2.0	0.80	50	102.6	90-110
GN54083-CCV1	Nitrogen, Nitrate	2.5	0.10	0.050	2.5	100.0	90-110
GN54083-CCV1	Sulfate	51.9	2.0	0.60	50	103.8	90-110
GN54083-CCB1	Fluoride	0.060 U	0.20	0.060			
GN54083-CCB1	Chloride	0.80 U	2.0	0.80			
GN54083-CCB1	Nitrogen, Nitrate	0.050 U	0.10	0.050			
GN54083-CCB1	Sulfate	0.60 U	2.0	0.60			
GN54083-CCV2	Fluoride	2.7	0.20	0.060	2.5	108.0	90-110
GN54083-CCV2	Chloride	51.5	2.0	0.80	50	103.0	90-110
GN54083-CCV2	Nitrogen, Nitrate	2.6	0.10	0.050	2.5	104.0	90-110
GN54083-CCV2	Sulfate	50.2	2.0	0.60	50	100.4	90-110
GN54083-CCB2	Fluoride	0.060 U	0.20	0.060			
GN54083-CCB2	Chloride	0.80 U	2.0	0.80			
GN54083-CCB2	Nitrogen, Nitrate	0.050 U	0.10	0.050			
GN54083-CCB2	Sulfate	0.60 U	2.0	0.60			
GN54083-CCV3	Fluoride	2.4	0.20	0.060	2.5	96.0	90-110
GN54083-CCV3	Chloride	51.4	2.0	0.80	50	102.8	90-110
GN54083-CCV3	Nitrogen, Nitrate	2.6	0.10	0.050	2.5	104.0	90-110
GN54083-CCV3	Sulfate	51.2	2.0	0.60	50	102.4	90-110
GN54083-CCB3	Fluoride	0.060 U	0.20	0.060			
GN54083-CCB3	Chloride	0.80 U	2.0	0.80			
GN54083-CCB3	Nitrogen, Nitrate	0.050 U	0.10	0.050			
GN54083-CCB3	Sulfate	0.60 U	2.0	0.60			

(!) Outside of QC limits

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA1614
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: 313110201.TXT Date Analyzed: 02/11/13 Methods: EPA 300/SW846 9056A
Analyst: AA Run ID: GN54101
Parameters: Fluoride

Time	Sample Description	Dilution Factor	PS Recov	Comments
09:25	GN54101-CCV1	1		
09:41	GN54101-CCB1	1		
09:56	GP20959-MB1	1		
10:12	GP20959-B1	1		
11:00	FA1564-6	1		(sample used for QC only; not part of login FA1614)
11:16	FA1614-1	500		
11:32	ZZZZZZ	500		
11:48	ZZZZZZ	100		
12:04	GP20959-S1	1		
12:20	GP20959-S2	1		
12:35	GN54101-CCV2	1		
12:51	GN54101-CCB2	1		
13:11	GP20960-MB1	1		
13:27	GP20960-B1	1		
13:43	ZZZZZZ	5		
13:59	ZZZZZZ	25		
14:15	ZZZZZZ	5		
14:46	ZZZZZZ	10		
15:02	ZZZZZZ	10		
15:18	ZZZZZZ	10		
15:50	GN54101-CCV3	1		
16:06	GN54101-CCB3	1		
16:38	ZZZZZZ	2		
17:25	ZZZZZZ	10		
17:41	ZZZZZZ	5		
17:57	ZZZZZZ	25		
18:13	ZZZZZZ	25		
18:29	FA1416-2	5		(sample used for QC only; not part of login FA1614)
19:01	GN54101-CCV4	1		
19:17	GN54101-CCB4	1		
19:33	ZZZZZZ	5		
19:49	ZZZZZZ	5		
20:04	ZZZZZZ	5		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA1614
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: 313110201.TXT Date Analyzed: 02/11/13 Methods: EPA 300/SW846 9056A
Analyst: AA Run ID: GN54101
Parameters: Fluoride

Time	Sample Description	Dilution Factor	PS Recov	Comments
20:20	ZZZZZZ	5		
20:36	ZZZZZZ	5		
20:52	ZZZZZZ	5		
21:08	ZZZZZZ	5		
21:24	GP20960-S1	5		
21:40	GP20960-S2	5		
22:12	GN54101-CCV5	1		
22:27	GN54101-CCB5	1		

Refer to raw data for calibration curve and standards.

Instrument QC Summary
Inorganics Analyses

Login Number: FA1614
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: 313110201.TXT Date Analyzed: 02/11/13 Methods: EPA 300/SW846 9056A
Run ID: GN54101 Units: mg/l

Sample Number	Parameter	Result	RL	IDL/MDL	True Value	% Recov.	QC Limits
GN54101-CCV1	Fluoride	2.5	0.20	0.060	2.5	100.0	90-110
GN54101-CCB1	Fluoride	0.060 U	0.20	0.060			
GN54101-CCV2	Fluoride	2.3	0.20	0.060	2.5	92.0	90-110
GN54101-CCB2	Fluoride	0.060 U	0.20	0.060			
GN54101-CCV3	Fluoride	2.4	0.20	0.060	2.5	96.0	90-110
GN54101-CCB3	Fluoride	0.060 U	0.20	0.060			
GN54101-CCV4	Fluoride	2.4	0.20	0.060	2.5	96.0	90-110
GN54101-CCB4	Fluoride	0.060 U	0.20	0.060			
GN54101-CCV5	Fluoride	2.5	0.20	0.060	2.5	100.0	90-110
GN54101-CCB5	Fluoride	0.060 U	0.20	0.060			

(!) Outside of QC limits

Southeast ACCUTEST LABORATORIES

Reissue #1
03/08/13

Technical Report for

WSP Environment & Energy

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

36785.01

Accutest Job Number: FA1713

Sampling Date: 02/13/13

Report to:

WSP Environment & Energy

brian.kelly@wspgroup.com
tim.huff@wspgroup.com; isaac.pelz@wspgroup.com; steve.dawson@wspgroup.com
ATTN: Tim Huff

Total number of pages in report: **96**

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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March 8, 2013

Mr. Tim Huff
WSP Environment & Energy
205 W Park St
Jackson, MO 63755

RE: Accutest job FA1713 Reissue

Dear Mr. Huff,

The final report for job number FA1713 been edited to reflect the following corrections. These edits have been incorporated into the revised report.

The sample IDs for FA1713-1 & 2 have 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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Accutest Laboratories

Sample Summary

WSP Environment & Energy

Job No: FA1713

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
FA1713-1	02/13/13	11:55	TP	02/14/13	AQ	Ground Water	A-35-080
FA1713-1F	02/13/13	11:55	TP	02/14/13	AQ	Groundwater Filtered	A-35-080
FA1713-1L	02/13/13	11:55	TP	02/14/13	AQ	Ground Water	A-35-080
FA1713-2	02/13/13	10:15	TP	02/14/13	AQ	Ground Water	A-35-155
FA1713-2F	02/13/13	10:15	TP	02/14/13	AQ	Groundwater Filtered	A-35-155
FA1713-2L	02/13/13	10:15	TP	02/14/13	AQ	Ground Water	A-35-155
FA1713-3	02/13/13	12:00	TP	02/14/13	AQ	Ground Water	DUP02132013
FA1713-3F	02/13/13	12:00	TP	02/14/13	AQ	Groundwater Filtered	DUP02132013

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: WSP Environment & Energy **Job No:** FA1713

Site: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID **Report Date** 2/28/2013 5:23:12 PM

3 Sample(s) were collected on 02/13/2013 and were received at Accutest SE on 02/14/2013 properly preserved, at 2.6 Deg. C and intact. These Samples received an Accutest job number of FA1713. 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:** MP24624

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) FA1709-1DUP, FA1709-1MS, FA1709-1MSD, FA1709-1PS, FA1709-1SDL were used as the QC samples for metals.

RPD(s) for Duplicate for Aluminum are outside control limits for sample MP24624-D1. RPD acceptable due to low duplicate and sample concentrations.

RPD(s) for Serial Dilution for Aluminum, Arsenic, Potassium are outside control limits for sample MP24624-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Matrix: LEACHATE **Batch ID:** MP24638

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) FA1713-1LDUP, FA1713-1LMS, FA1713-1LMSD, FA1713-1LSDL were used as the QC samples for metals.

RPD(s) for Serial Dilution for Barium are outside control limits for sample MP24638-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Metals By Method SW846 7470A

Matrix: LEACHATE **Batch ID:** MP24643

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) FA1717-1DUP, FA1717-1MS, FA1717-1MSD, FA1717-1SDL were used as the QC samples for metals.

Wet Chemistry By Method EPA 120.1

Matrix: AQ **Batch ID:** GN54159

All method blanks for this batch meet method specific criteria.

Sample(s) FA1713-1DUP was used as the QC sample for Specific Conductivity.

The following samples were run outside of holding time for method EPA 120.1: FA1713-1, FA1713-2, FA1713-3

FA1713-1, FA1713-2, FA1713-3 for Specific Conductivity: Received out of hold & analyzed by request.

Wet Chemistry By Method EPA 300/SW846 9056A

Matrix: AQ **Batch ID:** GP20986

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) FA1735-1MS, FA1735-1MSD were used as the QC samples for Chloride, Nitrogen, Nitrate, Sulfate, Fluoride.

Wet Chemistry By Method EPA 300/SW846 9056A

Matrix: AQ **Batch ID:** GP2098

Matrix Spike Recovery(s)/Matrix Spike Duplicate Recovery(s) for Fluoride are outside control limits. Spike recovery indicates possible matrix interference. Refer to lab control or spike blank for recovery information.

FA1713-2 for Fluoride: Dilution required due to matrix interference.

FA1713-3 for Fluoride: Dilution required due to matrix interference.

Wet Chemistry By Method EPA 365.3

Matrix: AQ **Batch ID:** GP20982

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) FA1713-1FDUP, FA1713-1FMSD were used as the QC samples for Phosphate, Ortho.

Matrix Spike Recovery(s)/Matrix Spike Duplicate Recovery(s) for Phosphate, Ortho 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:** GP21028

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA1882-6DUP, FA1882-6MS, FA1882-6MSD were used as the QC samples for Phosphorus, Total.

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

Matrix: AQ **Batch ID:** GN54157

Sample(s) FA1713-2DUP was used as the QC sample for pH.

FA1713-1 for pH: Field analysis required. Received out of hold time and analyzed by request.

FA1713-2 for pH: Field analysis required. Received out of hold time and analyzed by request.

FA1713-3 for pH: Field analysis required. Received out of hold time and analyzed by request.

Wet Chemistry By Method SM19 2320B

Matrix: AQ **Batch ID:** GN54292

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA1665-5DUP, FA1665-5MS were used as the QC samples for Alkalinity, Total as CaCO3.

Matrix Spike Recovery(s) for Alkalinity, Total as CaCO3 are outside control limits. Spike recovery indicates possible matrix interference. Refer to lab control or spike blank for recovery information.

Matrix: AQ **Batch ID:** GN54293

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA1765-4DUP, FA1765-4MS were used as the QC samples for Alkalinity, Total as CaCO3.

Wet Chemistry By Method SM19 2540C

Matrix: AQ **Batch ID:** GN54214

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA1764-2DUP was used as the QC sample for Solids, Total Dissolved.

Matrix: AQ **Batch ID:** GN54239

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA1765-1DUP was used as the QC sample for Solids, Total Dissolved.

RPD(s) for Duplicate for Solids, Total Dissolved are outside control limits for sample GN54239-D1. Probable cause is due to sample non-homogeneity.

GN54239-D1 for Solids, Total Dissolved: Confirmed by 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:

_____ Date: February 28, 2013

Kim Benham, Client Services (signature on file)

Summary of Hits

Job Number: FA1713
Account: WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID
Collected: 02/13/13

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA1713-1	**A-35-080**					
Alkalinity, Bicarbonate as CaCO3		627	5.0	5.0	mg/l	SM18 4500CO2D
Alkalinity, Total as CaCO3		628	25	13	mg/l	SM19 2320B
Chloride		144	50	20	mg/l	EPA 300/SW846 9056A
Fluoride		2.7 J	5.0	1.5	mg/l	EPA 300/SW846 9056A
Nitrogen, Nitrate		58.1	2.5	1.3	mg/l	EPA 300/SW846 9056A
Phosphorus, Total		31.7	10	2.8	mg/l	EPA 365.3
Solids, Total Dissolved		3440	500	50	mg/l	SM19 2540C
Specific Conductivity [a]		4530	1.0	1.0	umhos/cm	EPA 120.1
Sulfate		2080	50	15	mg/l	EPA 300/SW846 9056A
pH [b]		6.50			su	SM 4500H B/SW 9040C
FA1713-1F	**A-35-080**					
Antimony		1.6 J	6.0	1.3	ug/l	SW846 6010C
Arsenic		13.0	10	2.5	ug/l	SW846 6010C
Calcium		457000	1000	50	ug/l	SW846 6010C
Magnesium		290000	5000	74	ug/l	SW846 6010C
Potassium		49400	10000	200	ug/l	SW846 6010C
Selenium		3.6 J	10	2.0	ug/l	SW846 6010C
Sodium		212000	50000	2500	ug/l	SW846 6010C
Phosphate, Ortho		257	100	19	mg/l	EPA 365.3
FA1713-1L	**A-35-080**					
Barium		0.075 J	2.0	0.050	mg/l	SW846 6010C
FA1713-2	**A-35-155**					
Alkalinity, Bicarbonate as CaCO3		376	5.0	5.0	mg/l	SM18 4500CO2D
Alkalinity, Total as CaCO3		376	5.0	0.60	mg/l	SM19 2320B
Chloride		31.3	20	8.0	mg/l	EPA 300/SW846 9056A
Nitrogen, Nitrate		1.8	1.0	0.50	mg/l	EPA 300/SW846 9056A
Phosphorus, Total		2.1	1.0	0.28	mg/l	EPA 365.3
Solids, Total Dissolved		2240	100	10	mg/l	SM19 2540C
Specific Conductivity [a]		2320	1.0	1.0	umhos/cm	EPA 120.1
Sulfate		1230	50	15	mg/l	EPA 300/SW846 9056A
pH [b]		7.04			su	SM 4500H B/SW 9040C
FA1713-2F	**A-35-155**					
Calcium		370000	1000	50	ug/l	SW846 6010C
Magnesium		161000	5000	74	ug/l	SW846 6010C
Potassium		9210 J	10000	200	ug/l	SW846 6010C

Summary of Hits

Job Number: FA1713
Account: WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID
Collected: 02/13/13

Lab Sample ID Client Sample ID Analyte	Result/ Qual	RL	MDL	Units	Method
Selenium	3.3 J	10	2.0	ug/l	SW846 6010C
Sodium	77300	10000	500	ug/l	SW846 6010C
Phosphate, Ortho	3.6	1.0	0.19	mg/l	EPA 365.3
FA1713-2L A-35-155					
No hits reported in this sample.					
FA1713-3 DUP02132013					
Alkalinity, Bicarbonate as CaCO3	345	5.0	5.0	mg/l	SM18 4500CO2D
Alkalinity, Total as CaCO3	345	5.0	0.60	mg/l	SM19 2320B
Chloride	30.9	20	8.0	mg/l	EPA 300/SW846 9056A
Fluoride [c]	1.0 J	2.0	0.60	mg/l	EPA 300/SW846 9056A
Nitrogen, Nitrate	1.8	1.0	0.50	mg/l	EPA 300/SW846 9056A
Phosphorus, Total	1.9	0.50	0.14	mg/l	EPA 365.3
Solids, Total Dissolved	2270	100	10	mg/l	SM19 2540C
Specific Conductivity [a]	2320	1.0	1.0	umhos/cm	EPA 120.1
Sulfate	1250	50	15	mg/l	EPA 300/SW846 9056A
pH [b]	7.03			su	SM 4500H B/SW 9040C
FA1713-3F DUP02132013					
Calcium	380000	1000	50	ug/l	SW846 6010C
Magnesium	164000	5000	74	ug/l	SW846 6010C
Potassium	9320 J	10000	200	ug/l	SW846 6010C
Selenium	3.4 J	10	2.0	ug/l	SW846 6010C
Sodium	79400	10000	500	ug/l	SW846 6010C
Phosphate, Ortho	3.7	1.0	0.19	mg/l	EPA 365.3

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

Southeast ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	A-35-080		
Lab Sample ID:	FA1713-1	**Date Sampled:**	02/13/13
Matrix:	AQ - Ground Water	**Date Received:**	02/14/13
		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	627	5.0	5.0	mg/l	1	02/23/13	AC	SM18 4500CO2D
Alkalinity, Carbonate	5.0 U	5.0	5.0	mg/l	1	02/23/13	AC	SM18 4500CO2D
Alkalinity, Total as CaCO3	628	25	13	mg/l	1	02/23/13 14:00	AC	SM19 2320B
Chloride	144	50	20	mg/l	25	02/14/13 12:26	AA	EPA 300/SW846 9056A
Fluoride	2.7 J	5.0	1.5	mg/l	25	02/14/13 12:26	AA	EPA 300/SW846 9056A
Nitrogen, Nitrate	58.1	2.5	1.3	mg/l	25	02/14/13 12:26	AA	EPA 300/SW846 9056A
Phosphorus, Total	31.7	10	2.8	mg/l	100	02/22/13 08:00	LE	EPA 365.3
Solids, Total Dissolved	3440	500	50	mg/l	5	02/20/13	KC	SM19 2540C
Specific Conductivity [a]	4530	1.0	1.0	umhos/cm	1	02/14/13 12:45	AC	EPA 120.1
Sulfate	2080	50	15	mg/l	25	02/14/13 12:26	AA	EPA 300/SW846 9056A
pH [b]	6.50			su	1	02/14/13 11:45	AC	SM 4500H B/SW 9040C

(a) Received out of hold & analyzed by request.
(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-35-080		
Lab Sample ID:	FA1713-1F	**Date Sampled:**	02/13/13
Matrix:	AQ - Groundwater Filtered	**Date Received:**	02/14/13
		Percent Solids:	n/a
Project:	Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	15 U	200	15	ug/l	1	02/15/13	02/18/13	LM	SW846 6010C [1]	SW846 3010A [3]
Antimony	1.6 J	6.0	1.3	ug/l	1	02/15/13	02/18/13	LM	SW846 6010C [1]	SW846 3010A [3]
Arsenic	13.0	10	2.5	ug/l	1	02/15/13	02/18/13	LM	SW846 6010C [1]	SW846 3010A [3]
Cadmium	0.50 U	5.0	0.50	ug/l	1	02/15/13	02/18/13	LM	SW846 6010C [1]	SW846 3010A [3]
Calcium	457000	1000	50	ug/l	1	02/15/13	02/18/13	LM	SW846 6010C [1]	SW846 3010A [3]
Chromium	2.0 U	10	2.0	ug/l	1	02/15/13	02/18/13	LM	SW846 6010C [1]	SW846 3010A [3]
Iron	29 U	300	29	ug/l	1	02/15/13	02/18/13	LM	SW846 6010C [1]	SW846 3010A [3]
Magnesium	290000	5000	74	ug/l	1	02/15/13	02/18/13	LM	SW846 6010C [1]	SW846 3010A [3]
Potassium	49400	10000	200	ug/l	1	02/15/13	02/18/13	LM	SW846 6010C [1]	SW846 3010A [3]
Selenium	3.6 J	10	2.0	ug/l	1	02/15/13	02/18/13	LM	SW846 6010C [1]	SW846 3010A [3]
Sodium	212000	50000	2500	ug/l	5	02/15/13	02/19/13	LM	SW846 6010C [2]	SW846 3010A [3]

(1) Instrument QC Batch: MA10540
(2) Instrument QC Batch: MA10544
(3) Prep QC Batch: MP24624

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:	FA1713-1F	**Date Sampled:**	02/13/13
Matrix:	AQ - Groundwater Filtered	**Date Received:**	02/14/13
		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	257	100	19	mg/l	100	02/14/13 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-35-080		
Lab Sample ID:	FA1713-1L	**Date Sampled:**	02/13/13
Matrix:	AQ - Ground Water	**Date Received:**	02/14/13
		Percent Solids:	n/a
Project:	Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID		

Metals Analysis, TCLP Leachate SW846 1311

Analyte	Result	HW#	MCL	RL	MDL	Units	DF	Prep	Analyzed	By	Method
Arsenic	0.025 U	D004	5.0	0.10	0.025	mg/l	1	02/19/13	02/19/13	LM	SW846 6010C [1]
Barium	0.075 J	D005	100	2.0	0.050	mg/l	1	02/19/13	02/19/13	LM	SW846 6010C [1]
Cadmium	0.0050 U	D006	1.0	0.050	0.0050	mg/l	1	02/19/13	02/19/13	LM	SW846 6010C [1]
Chromium	0.020 U	D007	5.0	0.10	0.020	mg/l	1	02/19/13	02/19/13	LM	SW846 6010C [1]
Lead	0.011 U	D008	5.0	0.050	0.011	mg/l	1	02/19/13	02/19/13	LM	SW846 6010C [1]
Mercury	0.00050 U	D009	0.20	0.0050	0.00050	mg/l	1	02/20/13	02/20/13	JL	SW846 7470A [2]
Selenium	0.020 U	D010	1.0	0.10	0.020	mg/l	1	02/19/13	02/19/13	LM	SW846 6010C [1]
Silver	0.0050 U	D011	5.0	0.10	0.0050	mg/l	1	02/19/13	02/19/13	LM	SW846 6010C [1]

(1) Instrument QC Batch: MA10544
(2) Instrument QC Batch: MA10549
(3) Prep QC Batch: MP24638
(4) Prep QC Batch: MP24643

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
MCL = Maximum Contamination Level (40 CFR 261 6/96) J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	A-35-155		
Lab Sample ID:	FA1713-2	**Date Sampled:**	02/13/13
Matrix:	AQ - Ground Water	**Date Received:**	02/14/13
		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	376	5.0	5.0	mg/l	1	02/23/13	AC	SM18 4500CO2D
Alkalinity, Carbonate	5.0 U	5.0	5.0	mg/l	1	02/23/13	AC	SM18 4500CO2D
Alkalinity, Total as CaCO3	376	5.0	0.60	mg/l	1	02/23/13 14:37	AC	SM19 2320B
Chloride	31.3	20	8.0	mg/l	10	02/14/13 12:42	AA	EPA 300/SW846 9056A
Fluoride [a]	0.60 U	2.0	0.60	mg/l	10	02/14/13 12:42	AA	EPA 300/SW846 9056A
Nitrogen, Nitrate	1.8	1.0	0.50	mg/l	10	02/14/13 12:42	AA	EPA 300/SW846 9056A
Phosphorus, Total	2.1	1.0	0.28	mg/l	10	02/22/13 08:00	LE	EPA 365.3
Solids, Total Dissolved	2240	100	10	mg/l	1	02/19/13	KC	SM19 2540C
Specific Conductivity [b]	2320	1.0	1.0	umhos/cm	1	02/14/13 12:45	AC	EPA 120.1
Sulfate	1230	50	15	mg/l	25	02/14/13 19:21	AA	EPA 300/SW846 9056A
pH [c]	7.04			su	1	02/14/13 11:45	AC	SM 4500H B/SW 9040C

(a) Dilution required due to matrix interference.
(b) Received out of hold & analyzed by request.
(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:	FA1713-2F	**Date Sampled:**	02/13/13
Matrix:	AQ - Groundwater Filtered	**Date Received:**	02/14/13
		Percent Solids:	n/a
Project:	Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	15 U	200	15	ug/l	1	02/15/13	02/18/13	LM	SW846 6010C [1]	SW846 3010A [2]
Antimony	1.3 U	6.0	1.3	ug/l	1	02/15/13	02/18/13	LM	SW846 6010C [1]	SW846 3010A [2]
Arsenic	2.5 U	10	2.5	ug/l	1	02/15/13	02/18/13	LM	SW846 6010C [1]	SW846 3010A [2]
Cadmium	0.50 U	5.0	0.50	ug/l	1	02/15/13	02/18/13	LM	SW846 6010C [1]	SW846 3010A [2]
Calcium	370000	1000	50	ug/l	1	02/15/13	02/18/13	LM	SW846 6010C [1]	SW846 3010A [2]
Chromium	2.0 U	10	2.0	ug/l	1	02/15/13	02/18/13	LM	SW846 6010C [1]	SW846 3010A [2]
Iron	29 U	300	29	ug/l	1	02/15/13	02/18/13	LM	SW846 6010C [1]	SW846 3010A [2]
Magnesium	161000	5000	74	ug/l	1	02/15/13	02/18/13	LM	SW846 6010C [1]	SW846 3010A [2]
Potassium	9210 J	10000	200	ug/l	1	02/15/13	02/18/13	LM	SW846 6010C [1]	SW846 3010A [2]
Selenium	3.3 J	10	2.0	ug/l	1	02/15/13	02/18/13	LM	SW846 6010C [1]	SW846 3010A [2]
Sodium	77300	10000	500	ug/l	1	02/15/13	02/18/13	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10540
(2) Prep QC Batch: MP24624

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:	FA1713-2F	**Date Sampled:**	02/13/13
Matrix:	AQ - Groundwater Filtered	**Date Received:**	02/14/13
		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	3.6	1.0	0.19	mg/l	10	02/14/13 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:	FA1713-2L	**Date Sampled:**	02/13/13
Matrix:	AQ - Ground Water	**Date Received:**	02/14/13
		Percent Solids:	n/a
Project:	Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID		

Metals Analysis, TCLP Leachate SW846 1311

Analyte	Result	HW#	MCL	RL	MDL	Units	DF	Prep	Analyzed	By	Method
Arsenic	0.025 U	D004	5.0	0.10	0.025	mg/l	1	02/19/13	02/19/13	LM	SW846 6010C [1]
Barium	0.050 U	D005	100	2.0	0.050	mg/l	1	02/19/13	02/19/13	LM	SW846 6010C [1]
Cadmium	0.0050 U	D006	1.0	0.050	0.0050	mg/l	1	02/19/13	02/19/13	LM	SW846 6010C [1]
Chromium	0.020 U	D007	5.0	0.10	0.020	mg/l	1	02/19/13	02/19/13	LM	SW846 6010C [1]
Lead	0.011 U	D008	5.0	0.050	0.011	mg/l	1	02/19/13	02/19/13	LM	SW846 6010C [1]
Mercury	0.00050 U	D009	0.20	0.0050	0.00050	mg/l	1	02/20/13	02/20/13	JL	SW846 7470A [2]
Selenium	0.020 U	D010	1.0	0.10	0.020	mg/l	1	02/19/13	02/19/13	LM	SW846 6010C [1]
Silver	0.0050 U	D011	5.0	0.10	0.0050	mg/l	1	02/19/13	02/19/13	LM	SW846 6010C [1]

(1) Instrument QC Batch: MA10544
(2) Instrument QC Batch: MA10549
(3) Prep QC Batch: MP24638
(4) Prep QC Batch: MP24643

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
MCL = Maximum Contamination Level (40 CFR 261 6/96) J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	DUP02132013		
Lab Sample ID:	FA1713-3	**Date Sampled:**	02/13/13
Matrix:	AQ - Ground Water	**Date Received:**	02/14/13
		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	345	5.0	5.0	mg/l	1	02/23/13	AC	SM18 4500CO2D
Alkalinity, Carbonate	5.0 U	5.0	5.0	mg/l	1	02/23/13	AC	SM18 4500CO2D
Alkalinity, Total as CaCO3	345	5.0	0.60	mg/l	1	02/23/13 14:37	AC	SM19 2320B
Chloride	30.9	20	8.0	mg/l	10	02/14/13 12:57	AA	EPA 300/SW846 9056A
Fluoride [a]	1.0 J	2.0	0.60	mg/l	10	02/14/13 12:57	AA	EPA 300/SW846 9056A
Nitrogen, Nitrate	1.8	1.0	0.50	mg/l	10	02/14/13 12:57	AA	EPA 300/SW846 9056A
Phosphorus, Total	1.9	0.50	0.14	mg/l	5	02/22/13 08:00	LE	EPA 365.3
Solids, Total Dissolved	2270	100	10	mg/l	1	02/19/13	KC	SM19 2540C
Specific Conductivity [b]	2320	1.0	1.0	umhos/cm	1	02/14/13 12:45	AC	EPA 120.1
Sulfate	1250	50	15	mg/l	25	02/14/13 19:37	AA	EPA 300/SW846 9056A
pH [c]	7.03			su	1	02/14/13 11:45	AC	SM 4500H B/SW 9040C

(a) Dilution required due to matrix interference.
(b) Received out of hold & analyzed by request.
(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:	DUP02132013		
Lab Sample ID:	FA1713-3F	**Date Sampled:**	02/13/13
Matrix:	AQ - Groundwater Filtered	**Date Received:**	02/14/13
		Percent Solids:	n/a
Project:	Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	15 U	200	15	ug/l	1	02/15/13	02/18/13	LM	SW846 6010C [1]	SW846 3010A [2]
Antimony	1.3 U	6.0	1.3	ug/l	1	02/15/13	02/18/13	LM	SW846 6010C [1]	SW846 3010A [2]
Arsenic	2.5 U	10	2.5	ug/l	1	02/15/13	02/18/13	LM	SW846 6010C [1]	SW846 3010A [2]
Cadmium	0.50 U	5.0	0.50	ug/l	1	02/15/13	02/18/13	LM	SW846 6010C [1]	SW846 3010A [2]
Calcium	380000	1000	50	ug/l	1	02/15/13	02/18/13	LM	SW846 6010C [1]	SW846 3010A [2]
Chromium	2.0 U	10	2.0	ug/l	1	02/15/13	02/18/13	LM	SW846 6010C [1]	SW846 3010A [2]
Iron	29 U	300	29	ug/l	1	02/15/13	02/18/13	LM	SW846 6010C [1]	SW846 3010A [2]
Magnesium	164000	5000	74	ug/l	1	02/15/13	02/18/13	LM	SW846 6010C [1]	SW846 3010A [2]
Potassium	9320 J	10000	200	ug/l	1	02/15/13	02/18/13	LM	SW846 6010C [1]	SW846 3010A [2]
Selenium	3.4 J	10	2.0	ug/l	1	02/15/13	02/18/13	LM	SW846 6010C [1]	SW846 3010A [2]
Sodium	79400	10000	500	ug/l	1	02/15/13	02/18/13	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10540
(2) Prep QC Batch: MP24624

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:	DUP02132013		
Lab Sample ID:	FA1713-3F	**Date Sampled:**	02/13/13
Matrix:	AQ - Groundwater Filtered	**Date Received:**	02/14/13
		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	3.7	1.0	0.19	mg/l	10	02/14/13 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

Accutest JOB # FA1713 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#: 573-217-6759
Sampler(s) Name(s) (Printed): T PATTIE

Project Information

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

Analytical Information

SEE ATTACHED
TCLP-8

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	OTHER	NONE	HCl	NaOH	HNO3	H2SO4	NaOH+ZNAC	DI WATER	MEOH	SEE ATTACHED	TCLP-8									LAB USE ONLY
1	A-35-155	021313	1015	TP	GW	5		X			X	X				X	X									
2	A-35-080	021313	1155	TP	GW	5		X			X	X				X	X									
3	DUP02132013	021313	1200	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	021313 1330	2 FC	3 FC 02-14-13	930	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) Celsius: 2-6

5.1 5

FA1713: Chain of Custody
Page 1 of 6

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: FA1713 CLIENT: WSP PROJECT: Agrium

DATE/TIME RECEIVED: 02-14-13 930 {MM/DD/YY 24:00} NIMBER OF COOLERS RECEIVED: 1

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

AIRBILL NUMBERS: 8013 5708 0838

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: 2.2
- [ ] CORRECTED TEMPS: 2.6

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: 4

TECHNICIAN SIGNATURE/DATE 02-14-13 REVIEWER SIGNATURE/DATE 02/14/13

NF 12/10 receipt confirmation 122910.xls

5.1 5

FA1713: Chain of Custody
Page 2 of 6

Metals and O-Phos - Field Filtered

Note: A-34-022 High Phosphate

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

- total dissolved solids (TDS)
- dissolved 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

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 # FA1713 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#: 573-217-6759
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	TCLP-8										Matrix Codes
1	A-35-155	021313	1015	TP	GW	5		X			X	X				X	X										LAB USE ONLY
2	A-35-080	021313	1155	TP	GW	5		X			X	X				X	X										-2
3	DUP02132013	021313	1200	TP	GW	4		X			X	X				X											-1

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	021313 1330	2 FP	3 FP 02-14-13	930	4 KSE
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: 2-6

FA1713: Chain of Custody
Page 4 of 6

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: FA1713 CLIENT: WSP PROJECT: Agrium

DATE/TIME RECEIVED: 02-14-13 930 {MM/DD/YY 24:00} NIMBER OF COOLERS RECEIVED: 1

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

AIRBILL NUMBERS: 8013 5708 0838

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: 2.2
- [ ] CORRECTED TEMPS: 2.6

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
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- [ ] 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] 02-14-13 REVIEWER SIGNATURE/DATE [signature] 02/14/13

NF 12/10 receipt confirmation 122910.xls

5.1 5

FA1713: Chain of Custody

Page 5 of 6

Metals and O-Phos - Field Filtered

Note: A-34-022 High Phosphate

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

- total dissolved solids (TDS)
- dissolved 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

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: FA1713
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB021813M1.ICP Date Analyzed: 02/18/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10540
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
08:09	MA10540-STD1	1		STDA
08:14	MA10540-STD2	1		STDB
08:18	MA10540-STD3	1		STDC
08:22	MA10540-STD4	1		STDD
08:27	MA10540-HSTD1	1		
08:32	MA10540-ICV1	1		
08:40	MA10540-ICB1	1		
08:43	MA10540-CRIA1	1		
09:14	MA10540-ICSA1	1		
09:23	MA10540-ICSAB1	1		
09:29	MA10540-CCV1	1		
09:40	MA10540-CCB1	1		
09:44	MP24624-MB1	1		
09:48	MP24624-B1	1		
09:52	FA1709-1	1		(sample used for QC only; not part of login FA1713)
09:57	MP24624-D1	1		
10:01	MP24624-SD1	5		
10:05	MP24624-PS1	1		
10:13	MP24624-S2	1		
10:17	ZZZZZZ	1		
10:21	ZZZZZZ	1		
10:25	MA10540-CCV2	1		
10:29	MA10540-CCB2	1		
10:55	MA10540-CCV3	1		
11:02	MA10540-CCB3	1		
11:07	ZZZZZZ	1		
11:11	ZZZZZZ	1		
11:15	ZZZZZZ	1		
11:20	ZZZZZZ	1		
11:24	ZZZZZZ	1		
11:28	ZZZZZZ	1		
11:32	ZZZZZZ	1		
11:37	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA1713
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB021813M1.ICP Date Analyzed: 02/18/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10540
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

	Time	Sample Description	Dilution Factor	PS Recov	Comments
	11:41	FA1713-1F	1		
	11:45	FA1713-2F	1		
	11:50	MA10540-CCV4	1		
	11:53	MA10540-CCB4	1		
	11:58	FA1713-3F	1		
---------->	Last reportable sample/prep for job FA1713				
	12:02	ZZZZZZ	1		
	12:06	ZZZZZZ	1		
	12:11	ZZZZZZ	1		
	12:15	MP24626-MB1	1		
	12:19	MP24626-B1	1		
	12:23	FA1817-1	1		(sample used for QC only; not part of login FA1713)
	12:28	MP24626-D1	1		
	12:32	MP24626-SD1	5		
	12:36	MP24626-PS1	1		
	12:40	MA10540-CCV5	1		
	12:44	MA10540-CCB5	1		
	12:48	MP24626-S1	1		
	12:52	MP24626-S2	1		
	12:56	ZZZZZZ	1		
	13:00	ZZZZZZ	1		
	13:04	ZZZZZZ	1		
	13:08	ZZZZZZ	1		
	13:13	ZZZZZZ	1		
	13:17	ZZZZZZ	1		
	13:21	ZZZZZZ	1		
	13:25	ZZZZZZ	1		
	13:29	MA10540-CCV6	1		
	13:33	MA10540-CCB6	1		
	13:38	ZZZZZZ	1		
	13:42	ZZZZZZ	1		
	13:46	ZZZZZZ	1		
	13:50	ZZZZZZ	1		
	13:54	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA1713
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB021813M1.ICP Date Analyzed: 02/18/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10540
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
13:58	ZZZZZZ	1		
14:03	ZZZZZZ	1		
14:07	ZZZZZZ	1		
14:11	ZZZZZZ	1		
14:15	MP24629-MB1	1		
14:20	MA10540-CCV7	1		
14:24	MA10540-CCB7	1		
14:28	MP24629-B1	1		
14:32	FA1820-1	1		(sample used for QC only; not part of login FA1713)
14:36	MP24629-D1	1		
14:40	MP24629-SD1	5		
14:45	MP24629-PS1	1		
14:49	MP24629-S1	1		
14:53	MP24629-S2	1		
14:57	ZZZZZZ	1		
15:01	ZZZZZZ	1		
15:05	ZZZZZZ	1		
15:09	MA10540-CCV8	1		
15:13	MA10540-CCB8	1		
15:18	ZZZZZZ	1		
15:22	ZZZZZZ	1		
15:26	ZZZZZZ	1		
15:30	ZZZZZZ	1		
15:35	ZZZZZZ	1		
15:39	ZZZZZZ	1		
15:43	ZZZZZZ	1		
15:47	ZZZZZZ	1		
15:51	ZZZZZZ	1		
15:56	ZZZZZZ	1		
16:00	MA10540-CCV9	1		
16:04	MA10540-CCB9	1		
16:08	ZZZZZZ	1		
16:12	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA1713
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB021813M1.ICP Date Analyzed: 02/18/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10540
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

	Time	Sample Description	Dilution Factor	PS Recov	Comments
	16:17	ZZZZZZ	1		
	16:21	ZZZZZZ	1		
	16:25	MA10540-CRIA2	1		
	16:29	MA10540-ICSA2	1		
	16:34	MA10540-ICSAB2	1		
	16:38	MA10540-CCV10	1		
	16:42	MA10540-CCB10	1		
---------->	Last reportable CCB for job FA1713				
	Refer to raw data for calibration curve and standards.				

INTERNAL STANDARD SUMMARY

Login Number: FA1713
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB021813M1.ICP Date Analyzed: 02/18/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10540
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
08:09	MA10540-STD1	5030	37520	4727	2423
08:14	MA10540-STD2	4966	36671	4697	2236
08:18	MA10540-STD3	4793	35377	4689	2015
08:22	MA10540-STD4	4615	34197	4623	1836
08:27	MA10540-HSTD1	4589	34063	4604	1832
08:32	MA10540-ICV1	4783	35149	4660	1995
08:40	MA10540-ICB1	5093 R	37567 R	4736 R	2406 R
08:43	MA10540-CRIA1	5033	36879	4760	2290
09:14	MA10540-ICSA1	4349	30966	4492	1711
09:23	MA10540-ICSAB1	4388	31285	4501	1689
09:29	MA10540-CCV1	4911	35523	4682	1977
09:40	MA10540-CCB1	5203	37799	4727	2373
09:44	MP24624-MB1	5195	38220	4791	2372
09:48	MP24624-B1	4974	35959	4729	2075
09:52	FA1709-1	4999	36544	4787	2192
09:57	MP24624-D1	4988	36425	4727	2179
10:01	MP24624-SD1	5147	37488	4771	2321
10:05	MP24624-PS1	5013	36326	4748	2121
10:13	MP24624-S2	4966	35701	4752	2016
10:17	ZZZZZZ	4941	36040	4688	2129
10:21	ZZZZZZ	4996	36388	4750	2184
10:25	MA10540-CCV2	4917	35342	4679	1954
10:29	MA10540-CCB2	5167	37476	4731	2339
10:55	MA10540-CCV3	4911	35084	4642	1931
11:02	MA10540-CCB3	5199	37364	4697	2330
11:07	ZZZZZZ	4949	35670	4731	2119
11:11	ZZZZZZ	5174	37296	4858	2203
11:15	ZZZZZZ	5113	36827	4823	2183
11:20	ZZZZZZ	5197	37539	4830	2251
11:24	ZZZZZZ	5188	37400	4803	2266
11:28	ZZZZZZ	5191	37328	4826	2254
11:32	ZZZZZZ	5176	37265	4783	2260
11:37	ZZZZZZ	5073	36482	4829	2138

INTERNAL STANDARD SUMMARY

Login Number: FA1713
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB021813M1.ICP Date Analyzed: 02/18/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10540
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
11:41	FA1713-1F	4365	31458	4483	1714
11:45	FA1713-2F	4511	32592	4533	1821
11:50	MA10540-CCV4	4924	35166	4637	1922
11:53	MA10540-CCB4	5184	37278	4712	2313
11:58	FA1713-3F	4505	32650	4525	1818
12:02	ZZZZZZ	5192	37580	4787	2322
12:06	ZZZZZZ	4639	32766	4587	1789
12:11	ZZZZZZ	4361	30725	4482	1660
12:15	MP24626-MB1	5200	37742	4765	2320
12:19	MP24626-B1	4996	35599	4723	2030
12:23	FA1817-1	4946	35229	4756	1969
12:28	MP24626-D1	4945	34909	4666	1971
12:32	MP24626-SD1	5100	36330	4690	2168
12:36	MP24626-PS1	4856	34923	4681	1938
12:40	MA10540-CCV5	4866	34975	4646	1916
12:44	MA10540-CCB5	5155	37332	4782	2316
12:48	MP24626-S1	4814	34496	4740	1880
12:52	MP24626-S2	4770	34441	4687	1869
12:56	ZZZZZZ	5018	35960	4849	2032
13:00	ZZZZZZ	4926	35638	4704	2092
13:04	ZZZZZZ	4937	35342	4642	2074
13:08	ZZZZZZ	4899	35828	4701	2080
13:13	ZZZZZZ	4920	36048	4780	2076
13:17	ZZZZZZ	4968	36095	4797	2105
13:21	ZZZZZZ	4948	35935	4762	2112
13:25	ZZZZZZ	4920	35392	4750	2041
13:29	MA10540-CCV6	4883	34678	4604	1919
13:33	MA10540-CCB6	5076	37115	4703	2308
13:38	ZZZZZZ	4906	35903	4758	2078
13:42	ZZZZZZ	4921	35875	4774	2090
13:46	ZZZZZZ	4925	35418	4895	1942
13:50	ZZZZZZ	4887	34919	4679	2031
13:54	ZZZZZZ	4996	35635	4676	2118

INTERNAL STANDARD SUMMARY

Login Number: FA1713
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB021813M1.ICP Date Analyzed: 02/18/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10540
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
13:58	ZZZZZZ	4860	35560	4694	2074
14:03	ZZZZZZ	4878	35734	4780	2048
14:07	ZZZZZZ	4907	35835	4751	2091
14:11	ZZZZZZ	4950	35670	4720	2103
14:15	MP24629-MB1	5137	36815	4652	2308
14:20	MA10540-CCV7	4830	34749	4603	1915
14:24	MA10540-CCB7	5040	37031	4690	2294
14:28	MP24629-B1	4900	35536	4710	2034
14:32	FA1820-1	5415	39088	5102	2190
14:36	MP24629-D1	5410	38512	4991	2186
14:40	MP24629-SD1	5170	36981	4669	2258
14:45	MP24629-PS1	5224	37901	4995	2060
14:49	MP24629-S1	5143	37671	5009	2003
14:53	MP24629-S2	5171	37556	4976	1995
14:57	ZZZZZZ	5036	36208	4728	2124
15:01	ZZZZZZ	5065	37006	4645	2199
15:05	ZZZZZZ	5026	36730	4768	2120
15:09	MA10540-CCV8	4810	35056	4645	1920
15:13	MA10540-CCB8	5054	36945	4714	2302
15:18	ZZZZZZ	5020	36391	4686	2206
15:22	ZZZZZZ	5087	36762	4697	2250
15:26	ZZZZZZ	5048	37105	4805	2175
15:30	ZZZZZZ	5010	36712	4766	2206
15:35	ZZZZZZ	5112	37439	4725	2319
15:39	ZZZZZZ	4889	35163	4644	2026
15:43	ZZZZZZ	4898	36063	4730	2071
15:47	ZZZZZZ	4818	35522	4732	2047
15:51	ZZZZZZ	4927	36088	4785	2074
15:56	ZZZZZZ	4983	35823	4686	2125
16:00	MA10540-CCV9	4826	34512	4526	1909
16:04	MA10540-CCB9	5032	36969	4678	2294
16:08	ZZZZZZ	4833	35575	4752	2036
16:12	ZZZZZZ	4889	35637	4678	2066

INTERNAL STANDARD SUMMARY

Login Number: FA1713
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB021813M1.ICP Date Analyzed: 02/18/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10540
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
16:17	ZZZZZZ	4849	34766	4618	2005
16:21	ZZZZZZ	4785	34778	4600	1997
16:25	MA10540-CRIA2	5000	36353	4705	2208
16:29	MA10540-ICSA2	4371	30978	4435	1688
16:34	MA10540-ICSAB2	4373	30379	4335	1637
16:38	MA10540-CCV10	4833	34507	4528	1911
16:42	MA10540-CCB10	5063	37114	4688	2313

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: FA1713
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB021813M1.ICP Date Analyzed: 02/18/13 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA10540 Units: ug/l

Time:			08:40		09:40		10:29		11:02	
Sample ID:			ICB1		CCB1		CCB2		CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	15	-4.9	<200	4.2	<200	-1.9	<200	-0.20	<200
Antimony	6.0	1.3	-0.90	<6.0	-3.1	<6.0	-3.5	<6.0	1.0	<6.0
Arsenic	10	1.6	-1.1	<10	-0.50	<10	-0.50	<10	0.40	<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	0.20	<5.0
Calcium	1000	50	-1.8	<1000	9.0	<1000	10.5	<1000	8.4	<1000
Chromium	10	1.8	-0.10	<10	-0.10	<10	0.0	<10	0.60	<10
Cobalt	50	.5	anr							
Copper	25	1	anr							
Iron	300	29	-2.5	<300	-0.40	<300	7.1	<300	5.4	<300
Lead	5.0	1.1	anr							
Magnesium	5000	74	-2.4	<5000	8.6	<5000	-9.0	<5000	-18	<5000
Manganese	15	.7	anr							
Molybdenum	50	.6								
Nickel	40	.5	anr							
Potassium	10000	200	58.5	<10000	23.5	<10000	6.5	<10000	61.7	<10000
Selenium	10	2	0.20	<10	0.90	<10	-0.40	<10	1.2	<10
Silver	10	.5	anr							
Sodium	10000	500	22.2	<10000	14.3	<10000	44.4	<10000	17.8	<10000
Strontium	10	.5								
Thallium	10	1.3								
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: FA1713
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB021813M1.ICP Date Analyzed: 02/18/13 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA10540 Units: ug/l

Time:			11:53		12:44		13:33		14:24	
Sample ID:			CCB4		CCB5		CCB6		CCB7	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	15	10.4	<200	-2.6	<200	8.2	<200	0.20	<200
Antimony	6.0	1.3	-0.70	<6.0	-1.0	<6.0	-0.80	<6.0	-1.2	<6.0
Arsenic	10	1.6	0.20	<10	0.40	<10	0.20	<10	0.20	<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	31.1	<1000	6.3	<1000	10.6	<1000	8.3	<1000
Chromium	10	1.8	0.30	<10	0.60	<10	0.80	<10	0.40	<10
Cobalt	50	.5	anr							
Copper	25	1	anr							
Iron	300	29	15.7	<300	3.9	<300	8.4	<300	7.5	<300
Lead	5.0	1.1	anr							
Magnesium	5000	74	-5.4	<5000	7.4	<5000	13.1	<5000	-13	<5000
Manganese	15	.7	anr							
Molybdenum	50	.6								
Nickel	40	.5	anr							
Potassium	10000	200	99.2	<10000	97.3	<10000	40.9	<10000	37.0	<10000
Selenium	10	2	1.0	<10	1.3	<10	1.7	<10	0.70	<10
Silver	10	.5	anr							
Sodium	10000	500	98.8	<10000	91.3	<10000	55.4	<10000	41.0	<10000
Strontium	10	.5								
Thallium	10	1.3								
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: FA1713
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB021813M1.ICP Date Analyzed: 02/18/13 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA10540 Units: ug/l

Time:			15:13		16:04		16:42	
Sample ID:			CCB8		CCB9		CCB10	
Metal	RL	IDL	raw	final	raw	final	raw	final
Aluminum	200	15	-1.4	<200	1.0	<200	18.0	<200
Antimony	6.0	1.3	-0.80	<6.0	-0.40	<6.0	-0.10	<6.0
Arsenic	10	1.6	0.70	<10	0.70	<10	0.60	<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
Calcium	1000	50	9.4	<1000	13.5	<1000	23.9	<1000
Chromium	10	1.8	0.70	<10	0.50	<10	0.70	<10
Cobalt	50	.5	anr					
Copper	25	1	anr					
Iron	300	29	8.3	<300	8.9	<300	13.8	<300
Lead	5.0	1.1	anr					
Magnesium	5000	74	8.6	<5000	11.3	<5000	22.5	<5000
Manganese	15	.7	anr					
Molybdenum	50	.6						
Nickel	40	.5	anr					
Potassium	10000	200	53.5	<10000	33.7	<10000	15.0	<10000
Selenium	10	2	0.60	<10	1.6	<10	0.60	<10
Silver	10	.5	anr					
Sodium	10000	500	42.1	<10000	37.9	<10000	46.2	<10000
Strontium	10	.5						
Thallium	10	1.3						
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: FA1713
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB021813M1.ICP Date Analyzed: 02/18/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA10540 Units: ug/l

Time:		08:32			09:29			10:25	
Sample ID:	ICV	ICV1		CCV	CCV1		CCV	CCV2	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	41100	102.8	40000	41000	102.5	40000	41300	103.3
Antimony	2000	2010	100.5	2000	1890	94.5	2000	1870	93.5
Arsenic	2000	1970	98.5	2000	1920	96.0	2000	1890	94.5
Barium	anr								
Beryllium	anr								
Cadmium	2000	2040	102.0	2000	2040	102.0	2000	2040	102.0
Calcium	40000	43000	107.5	40000	41200	103.0	40000	41500	103.8
Chromium	2000	2060	103.0	2000	2070	103.5	2000	2090	104.5
Cobalt	anr								
Copper	anr								
Iron	40000	42100	105.3	40000	38600	96.5	40000	38100	95.3
Lead	anr								
Magnesium	40000	41600	104.0	40000	39400	98.5	40000	39000	97.5
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium	40000	41700	104.3	40000	39000	97.5	40000	38800	97.0
Selenium	2000	2050	102.5	2000	1920	96.0	2000	1890	94.5
Silver	anr								
Sodium	40000	38600	96.5	40000	41200	103.0	40000	41700	104.3
Strontium									
Thallium									
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: FA1713
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB021813M1.ICP Date Analyzed: 02/18/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA10540 Units: ug/l

Time:		10:55			11:50			12:40	
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	40500	101.3
Antimony	2000	1990	99.5	2000	1970	98.5	2000	2000	100.0
Arsenic	2000	1990	99.5	2000	1970	98.5	2000	2000	100.0
Barium	anr								
Beryllium	anr								
Cadmium	2000	2030	101.5	2000	2020	101.0	2000	2040	102.0
Calcium	40000	40800	102.0	40000	41100	102.8	40000	40800	102.0
Chromium	2000	2040	102.0	2000	2040	102.0	2000	2040	102.0
Cobalt	anr								
Copper	anr								
Iron	40000	40400	101.0	40000	40000	100.0	40000	40300	100.8
Lead	anr								
Magnesium	40000	40500	101.3	40000	40200	100.5	40000	40000	100.0
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium	40000	39900	99.8	40000	39700	99.3	40000	39900	99.8
Selenium	2000	2000	100.0	2000	1980	99.0	2000	2010	100.5
Silver	anr								
Sodium	40000	40400	101.0	40000	40600	101.5	40000	40200	100.5
Strontium									
Thallium									
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: FA1713
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB021813M1.ICP Date Analyzed: 02/18/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA10540 Units: ug/l

Time:		13:29			14:20			15:09	
Sample ID:	CCV	CCV6		CCV	CCV7		CCV	CCV8	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	40100	100.3	40000	40400	101.0	40000	40200	100.5
Antimony	2000	1990	99.5	2000	2010	100.5	2000	2040	102.0
Arsenic	2000	1970	98.5	2000	2010	100.5	2000	2030	101.5
Barium	anr								
Beryllium	anr								
Cadmium	2000	2010	100.5	2000	2040	102.0	2000	2030	101.5
Calcium	40000	40300	100.8	40000	40700	101.8	40000	40500	101.3
Chromium	2000	2030	101.5	2000	2040	102.0	2000	2010	100.5
Cobalt	anr								
Copper	anr								
Iron	40000	40200	100.5	40000	40300	100.8	40000	40800	102.0
Lead	anr								
Magnesium	40000	39700	99.3	40000	40000	100.0	40000	40200	100.5
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium	40000	39200	98.0	40000	39700	99.3	40000	40100	100.3
Selenium	2000	1980	99.0	2000	2010	100.5	2000	2040	102.0
Silver	anr								
Sodium	40000	40100	100.3	40000	40400	101.0	40000	40000	100.0
Strontium									
Thallium									
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: FA1713
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB021813M1.ICP Date Analyzed: 02/18/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA10540 Units: ug/l

Time:		16:00			16:38	
Sample ID:	CCV	CCV9		CCV	CCV10	
Metal	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	40400	101.0	40000	40500	101.3
Antimony	2000	2000	100.0	2000	2000	100.0
Arsenic	2000	2000	100.0	2000	2000	100.0
Barium	anr					
Beryllium	anr					
Cadmium	2000	2030	101.5	2000	2030	101.5
Calcium	40000	40600	101.5	40000	40700	101.8
Chromium	2000	2030	101.5	2000	2040	102.0
Cobalt	anr					
Copper	anr					
Iron	40000	40200	100.5	40000	40300	100.8
Lead	anr					
Magnesium	40000	39900	99.8	40000	40000	100.0
Manganese	anr					
Molybdenum						
Nickel	anr					
Potassium	40000	39600	99.0	40000	39700	99.3
Selenium	2000	2000	100.0	2000	2010	100.5
Silver	anr					
Sodium	40000	40300	100.8	40000	40400	101.0
Strontium						
Thallium						
Tin						
Titanium						
Vanadium	anr					
Zinc	anr					

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

HIGH STANDARD CHECK SUMMARY

Login Number: FA1713
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB021813M1.ICP Date Analyzed: 02/18/13 Methods: SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA10540 Units: ug/l

Time:		08:27	
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	anr		
Cadmium	4000	4000	100.0
Calcium	80000	80100	100.1
Chromium	4000	4000	100.0
Cobalt	anr		
Copper	anr		
Iron	80000	80100	100.1
Lead	anr		
Magnesium	80000	80300	100.4
Manganese	anr		
Molybdenum			
Nickel	anr		
Potassium	80000	81100	101.4
Selenium	4000	4030	100.8
Silver	anr		
Sodium	80000	81000	101.3
Strontium			
Thallium			
Tin			
Titanium			
Vanadium	anr		
Zinc	anr		

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

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: FA1713
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB021813M1.ICP Date Analyzed: 02/18/13 Methods: SW846 6010C
QC Limits: CRI 70-130% CRIA 70-130% Run ID: MA10540 Units: ug/l

Time:			08:43		16:25	
Sample ID:	CRI	CRIA	CRIA1		CRIA2	
Metal	True	True	Results	% Rec	Results	% Rec
Aluminum	400	200	198	99.0	203	101.5
Antimony	10	5.0	3.5	70.0	4.5	90.0
Arsenic	20	10	9.0	90.0	11.2	112.0
Barium	400	200	anr			
Beryllium	10	5.0	anr			
Cadmium	10	5.0	5.3	106.0	5.4	108.0
Calcium	2000	1000	1060	106.0	1080	108.0
Chromium	20	10	10.7	107.0	10.8	108.0
Cobalt	100	50	anr			
Copper	50	25	anr			
Iron	600	300	314	104.7	325	108.3
Lead	10	5.0	anr			
Magnesium	10000	5000	5130	102.6	5140	102.8
Manganese	30	15	anr			
Molybdenum	100	50				
Nickel	80	40	anr			
Potassium	20000	10000	9690	96.9	9980	99.8
Selenium	20	10	10.4	104.0	10.0	100.0
Silver	20	10	anr			
Sodium	20000	10000	10200	102.0	10100	101.0
Strontium	20	10				
Thallium	20	10				
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: FA1713
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB021813M1.ICP Date Analyzed: 02/18/13 Methods: SW846 6010C
QC Limits: 80 to 120 % Recovery Run ID: MA10540 Units: ug/l

Time:			09:14		09:23		16:29		16:34	
Sample ID:	ICSA	ICSAB	ICSA1		ICSAB1		ICSA2		ICSAB2	
Metal	True	True	Results	% Rec	Results	% Rec	Results	% Rec	Results	% Rec
Aluminum	500000	500000	517000	103.4	514000	102.8	509000	101.8	504000	100.8
Antimony		1000	0.0		988	98.8	1.7		1020	102.0
Arsenic		1000	0.0		995	99.5	1.7		1020	102.0
Barium		500	-0.50		489	97.8	-0.40		491	98.2
Beryllium		500	-0.30		451	90.2	0.0		462	92.4
Cadmium		1000	0.10		893	89.3	0.0		881	88.1
Calcium	500000	500000	485000	97.0	481000	96.2	480000	96.0	471000	94.2
Chromium		500	-0.40		468	93.6	0.50		463	92.6
Cobalt		500	0.30		440	88.0	0.50		436	87.2
Copper		500	0.0		492	98.4	-0.10		506	101.2
Iron	200000	200000	180000	90.0	175000	87.5	187000	93.5	182000	91.0
Lead		1000	-0.40		928	92.8	-13* (a)		870	87.0
Magnesium	500000	500000	483000	96.6	480000	96.0	493000	98.6	486000	97.2
Manganese		500	0.10		454	90.8	0.60		465	93.0
Molybdenum		1000	-0.80		924	92.4	-0.10		975	97.5
Nickel		1000	-1.0		823	82.3	-0.90		855	85.5
Potassium			-18		-1.3		105		57.3	
Selenium		1000	1.4		974	97.4	-0.30		992	99.2
Silver		1000	-0.50		939	93.9	-0.70		978	97.8
Sodium			84.9		115		218		181	
Strontium		1000	3.9		1140	114.0	3.7		1060	106.0
Thallium		1000	-1.4		923	92.3	-1.2		956	95.6
Tin		1000	-0.60		909	90.9	-0.40		924	92.4
Titanium		1000	-2.1		1010	101.0	-1.9		1080	108.0
Vanadium		500	0.30		474	94.8	0.30		477	95.4
Zinc		1000	-0.50		897	89.7	-0.80		884	88.4

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

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA1713
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB021913M1.ICP Date Analyzed: 02/19/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10544
Parameters: Al,Sb,As,Ba,Cd,Ca,Cr,Fe,Pb,Mg,K,Se,Ag,Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
08:05	MA10544-STD1	1		STDA
08:09	MA10544-STD2	1		STDB
08:12	MA10544-STD3	1		STDC
08:16	MA10544-STD4	1		STDD
08:20	MA10544-HSTD1	1		
08:28	MA10544-ICV1	1		
08:37	MA10544-ICB1	1		
08:42	MA10544-CRIA1	1		
08:52	MA10544-ICSA1	1		
09:00	MA10544-ICSAB1	1		
09:08	MA10544-CCV1	1		
09:17	MA10544-CCB1	1		
09:21	MP24632-MB1	1		
09:25	MP24632-B1	1		
09:33	FA1781-1	1		(sample used for QC only; not part of login FA1713)
09:37	MP24632-D1	1		
09:41	MP24632-SD1	5		
09:45	MP24632-PS1	1		
09:50	MP24632-S1	1		
09:54	MP24632-S2	1		
09:58	ZZZZZZ	1		
10:02	MA10544-CCV2	1		
10:06	MA10544-CCB2	1		
10:10	ZZZZZZ	1		
10:14	ZZZZZZ	1		
10:18	ZZZZZZ	1		
10:23	ZZZZZZ	1		
10:27	ZZZZZZ	1		
10:31	ZZZZZZ	1		
10:35	ZZZZZZ	1		
10:40	ZZZZZZ	1		
10:49	ZZZZZZ	1		
10:53	MA10544-CCV3	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA1713
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB021913M1.ICP Date Analyzed: 02/19/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10544
Parameters: Al,Sb,As,Ba,Cd,Ca,Cr,Fe,Pb,Mg,K,Se,Ag,Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
10:57	MA10544-CCB3	1		
11:02	ZZZZZZ	1		
11:06	ZZZZZZ	1		
11:10	ZZZZZZ	1		
11:14	ZZZZZZ	1		
11:19	ZZZZZZ	1		
11:23	ZZZZZZ	1		
11:27	ZZZZZZ	1		
11:44	MA10544-CCV4	1		
11:48	MA10544-CCB4	1		
12:34	MA10544-CCV5	1		
12:38	MA10544-CCB5	1		
12:51	MP24624-S1	1		
12:55	FA1713-1F	5		
12:59	ZZZZZZ	5		
13:03	ZZZZZZ	2		
13:07	ZZZZZZ	10		
13:11	ZZZZZZ	2		
13:16	ZZZZZZ	2		
13:20	ZZZZZZ	2		
13:24	MA10544-CCV6	1		
13:28	MA10544-CCB6	1		
13:32	ZZZZZZ	5		
13:37	ZZZZZZ	5		
13:41	ZZZZZZ	10		
13:45	ZZZZZZ	2		
13:49	ZZZZZZ	2		
13:54	ZZZZZZ	4		
13:58	ZZZZZZ	2		
14:02	ZZZZZZ	4		
14:06	ZZZZZZ	10		
14:10	ZZZZZZ	20		
14:14	MA10544-CCV7	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA1713
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB021913M1.ICP Date Analyzed: 02/19/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10544
Parameters: Al,Sb,As,Ba,Cd,Ca,Cr,Fe,Pb,Mg,K,Se,Ag,Na

	Time	Sample Description	Dilution Factor	PS Recov	Comments
	14:18	MA10544-CCB7	1		
	14:22	ZZZZZZ	5		
	14:27	ZZZZZZ	10		
	14:31	ZZZZZZ	5		
	14:35	MP24638-MB1	1		
	14:39	MP24638-B1	1		
	14:43	FA1713-1L	1		
	14:47	MP24638-D1	1		
	14:52	MP24638-SD1	5		
	14:56	MP24638-S1	1		
	15:00	MP24638-S2	1		
	15:04	MA10544-CCV8	1		
	15:08	MA10544-CCB8	1		
	15:12	FA1713-2L	1		
	15:16	ZZZZZZ	1		
	15:20	ZZZZZZ	1		
	15:24	ZZZZZZ	1		
	15:28	FA1717-4	1		(sample used for QC only; not part of login FA1713)
	15:32	MP24638-D2	1		
	15:36	MP24638-MB2	1		
	15:41	MP24638-B2	1		
---------->	Last reportable sample/prep for job FA1713				
	15:44	MA10544-CRIA2	1		
	15:49	MA10544-ICSA2	1		
	15:53	MA10544-CCV9	1		
	15:57	MA10544-CCB9	1		
	16:01	MA10544-ICSAB2	1		
	16:05	MA10544-CCV10	1		
	16:09	MA10544-CCB10	1		
---------->	Last reportable CCB for job FA1713				

Refer to raw data for calibration curve and standards.

INTERNAL STANDARD SUMMARY

Login Number: FA1713
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB021913M1.ICP Date Analyzed: 02/19/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10544
Parameters: Al,Sb,As,Ba,Cd,Ca,Cr,Fe,Pb,Mg,K,Se,Ag,Na

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
08:05	MA10544-STD1	7558	44201	6555	3138
08:09	MA10544-STD2	7504	44044	6552	2920
08:12	MA10544-STD3	7240	42668	6535	2617
08:16	MA10544-STD4	6990	41471	6501	2370
08:20	MA10544-HSTD1	7013	41630	6528	2374
08:28	MA10544-ICV1	7180	42234	6487	2574
08:37	MA10544-ICB1	7576 R	44456 R	6590 R	3142 R
08:42	MA10544-CRIA1	7510	43498	6516	2992
08:52	MA10544-ICSA1	6647	38150	6340	2291
09:00	MA10544-ICSAB1	6697	38490	6372	2255
09:08	MA10544-CCV1	7304	42225	6501	2590
09:17	MA10544-CCB1	7550	45049	6575	3151
09:21	MP24632-MB1	7506	45198	6632	3117
09:25	MP24632-B1	7426	43843	6712	2794
09:33	FA1781-1	11105 !	63180 !	9808 !	2678
09:37	MP24632-D1	10951 !	63003 !	9734 !	2666
09:41	MP24632-SD1	8435	49345	7371	3009
09:45	MP24632-PS1	10865 !	62817 !	9755 !	2629
09:50	MP24632-S1	10603 !	61457 !	9652 !	2565
09:54	MP24632-S2	10643 !	61104 !	9618 !	2526
09:58	ZZZZZZ	8547	49107	7466	2804
10:02	MA10544-CCV2	7396	43736	6665	2657
10:06	MA10544-CCB2	7490	44827	6603	3126
10:10	ZZZZZZ	7656	45873	6861	2990
10:14	ZZZZZZ	8363	48478	7451	2738
10:18	ZZZZZZ	10683 !	61968 !	9372 !	2819
10:23	ZZZZZZ	33187 !	193090 !	30027 !	2561
10:27	ZZZZZZ	6846	39359	6641	2389
10:31	ZZZZZZ	8752	52375	7937	2910
10:35	ZZZZZZ	8012	45551	7178	2615
10:40	ZZZZZZ	25423 !	147310 !	22960 !	2558
10:49	ZZZZZZ	6443	38186	6096	2322
10:53	MA10544-CCV3	7195	42874	6387	2605

INTERNAL STANDARD SUMMARY

Login Number: FA1713
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB021913M1.ICP Date Analyzed: 02/19/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10544
Parameters: Al,Sb,As,Ba,Cd,Ca,Cr,Fe,Pb,Mg,K,Se,Ag,Na

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
10:57	MA10544-CCB3	7588	45173	6461	3174
11:02	ZZZZZZ	6663	38745	6155	2372
11:06	ZZZZZZ	7493	44592	6310	3111
11:10	ZZZZZZ	6813	40621	6076	2606
11:14	ZZZZZZ	7639	45241	6890	2704
11:19	ZZZZZZ	6980	40490	6384	2600
11:23	ZZZZZZ	7054	40467	6275	2571
11:27	ZZZZZZ	9666 !	56615 !	8318 !	2831
11:44	MA10544-CCV4	7193	41948	6170	2590
11:48	MA10544-CCB4	7525	44837	6371	3167
12:34	MA10544-CCV5	7123	42964	6340	2636
12:38	MA10544-CCB5	7546	44916	6409	3181
12:51	MP24624-S1	7234	43226	6377	2728
12:55	FA1713-1F	7043	41747	6150	2749
12:59	ZZZZZZ	7380	43516	6325	2855
13:03	ZZZZZZ	6777	40139	6163	2488
13:07	ZZZZZZ	7233	42856	6202	2859
13:11	ZZZZZZ	7759	44941	6638	2703
13:16	ZZZZZZ	7738	45393	6598	2703
13:20	ZZZZZZ	9090	54119	7766	2878
13:24	MA10544-CCV6	7192	43411	6285	2668
13:28	MA10544-CCB6	7434	44148	6159	3146
13:32	ZZZZZZ	6824	40639	6083	2508
13:37	ZZZZZZ	6921	41661	6210	2505
13:41	ZZZZZZ	8758	51924	7313	2972
13:45	ZZZZZZ	8549	49742	7220	2752
13:49	ZZZZZZ	8548	50858	7270	2761
13:54	ZZZZZZ	7972	47830	6831	2922
13:58	ZZZZZZ	8438	50065	7260	2800
14:02	ZZZZZZ	7326	43217	6120	2924
14:06	ZZZZZZ	7603	43392	6434	2653
14:10	ZZZZZZ	7393	43840	6278	2869
14:14	MA10544-CCV7	7113	42334	6093	2635

INTERNAL STANDARD SUMMARY

Login Number: FA1713
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB021913M1.ICP Date Analyzed: 02/19/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10544
Parameters: Al,Sb,As,Ba,Cd,Ca,Cr,Fe,Pb,Mg,K,Se,Ag,Na

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
14:18	MA10544-CCB7	7406	44114	6075	3146
14:22	ZZZZZZ	7144	40916	6106	2547
14:27	ZZZZZZ	7370	43197	6285	2676
14:31	ZZZZZZ	7388	42659	6343	2531
14:35	MP24638-MB1	7526	45387	6208	3194
14:39	MP24638-B1	7345	43292	6127	2824
14:43	FA1713-1L	7210	43513	6156	2943
14:47	MP24638-D1	7168	43842	6227	2968
14:52	MP24638-SD1	7358	44582	6192	3140
14:56	MP24638-S1	7053	42340	6083	2726
15:00	MP24638-S2	7001	42138	6047	2713
15:04	MA10544-CCV8	7008	42643	6027	2654
15:08	MA10544-CCB8	7215	44732	6098	3198
15:12	FA1713-2L	7117	43684	6126	3022
15:16	ZZZZZZ	7359	43488	6169	2886
15:20	ZZZZZZ	7366	43645	6288	2732
15:24	ZZZZZZ	7153	44204	6196	2994
15:28	FA1717-4	7015	42670	6092	2872
15:32	MP24638-D2	7081	42483	6094	2836
15:36	MP24638-MB2	7357	45552	6180	3216
15:41	MP24638-B2	7053	43362	6150	2840
15:44	MA10544-CRIA2	7126	43220	5988	3027
15:49	MA10544-ICSA2	6523	38124	5812	2332
15:53	MA10544-CCV9	6905	42148	5915	2651
15:57	MA10544-CCB9	7123	44283	6084	3184
16:01	MA10544-ICSAB2	6366	37573	5754	2290
16:05	MA10544-CCV10	7056	42283	6003	2658
16:09	MA10544-CCB10	7232	44415	5986	3174

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: FA1713
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB021913M1.ICP Date Analyzed: 02/19/13 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA10544 Units: ug/l

Time:			08:37		09:17		10:06		10:57	
Sample ID:			ICB1		CCB1		CCB2		CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	15	-5.7	<200	-9.5	<200	-1.7	<200	1.5	<200
Antimony	6.0	1.3	0.0	<6.0	-1.1	<6.0	-0.10	<6.0	0.60	<6.0
Arsenic	10	1.6	0.20	<10	0.70	<10	0.30	<10	0.50	<10
Barium	200	1	-0.10	<200	0.20	<200	0.0	<200	0.30	<200
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	-1.5	<1000	6.6	<1000	9.7	<1000	14.2	<1000
Chromium	10	1.8	0.30	<10	0.30	<10	0.30	<10	0.80	<10
Cobalt	50	.5								
Copper	25	1								
Iron	300	29	-0.70	<300	5.5	<300	10.3	<300	12.3	<300
Lead	5.0	1.1	0.20	<5.0	-0.10	<5.0	-0.10	<5.0	-0.30	<5.0
Magnesium	5000	74	-5.4	<5000	-4.3	<5000	14.3	<5000	-5.1	<5000
Manganese	15	.7	anr							
Molybdenum	50	.6								
Nickel	40	.5	anr							
Potassium	10000	200	21.1	<10000	7.6	<10000	48.1	<10000	170	<10000
Selenium	10	2	0.90	<10	0.80	<10	1.3	<10	1.2	<10
Silver	10	.5	0.30	<10	0.30	<10	0.30	<10	0.40	<10
Sodium	10000	500	1.2	<10000	21.4	<10000	47.0	<10000	191	<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: FA1713
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB021913M1.ICP Date Analyzed: 02/19/13 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA10544 Units: ug/l

Time:			11:48		12:38		13:28		14:18	
Sample ID:			CCB4		CCB5		CCB6		CCB7	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	15	7.2	<200	1.5	<200	6.2	<200	-10	<200
Antimony	6.0	1.3	0.0	<6.0	-0.60	<6.0	0.0	<6.0	-0.50	<6.0
Arsenic	10	1.6	0.50	<10	0.20	<10	0.40	<10	0.80	<10
Barium	200	1	0.60	<200	0.20	<200	0.80	<200	0.10	<200
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	23.6	<1000	12.5	<1000	16.3	<1000	3.9	<1000
Chromium	10	1.8	1.0	<10	0.40	<10	0.60	<10	0.40	<10
Cobalt	50	.5								
Copper	25	1								
Iron	300	29	19.6	<300	13.0	<300	23.0	<300	5.8	<300
Lead	5.0	1.1	-0.10	<5.0	-0.20	<5.0	-0.40	<5.0	-0.30	<5.0
Magnesium	5000	74	24.9	<5000	7.5	<5000	12.8	<5000	5.4	<5000
Manganese	15	.7	anr							
Molybdenum	50	.6								
Nickel	40	.5	anr							
Potassium	10000	200	130	<10000	145	<10000	101	<10000	76.1	<10000
Selenium	10	2	1.0	<10	0.50	<10	1.0	<10	0.80	<10
Silver	10	.5	0.60	<10	0.20	<10	0.40	<10	0.30	<10
Sodium	10000	500	119	<10000	217	<10000	95.6	<10000	85.9	<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: FA1713
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB021913M1.ICP Date Analyzed: 02/19/13 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA10544 Units: ug/l

Time:			15:08		15:57		16:09	
Sample ID:			CCB8		CCB9		CCB10	
Metal	RL	IDL	raw	final	raw	final	raw	final
Aluminum	200	15	-5.3	<200	-3.2	<200	2.8	<200
Antimony	6.0	1.3	0.30	<6.0	0.30	<6.0	0.40	<6.0
Arsenic	10	1.6	0.10	<10	0.30	<10	0.90	<10
Barium	200	1	0.20	<200	0.30	<200	0.40	<200
Beryllium	4.0	.5	anr					
Cadmium	5.0	.5	0.20	<5.0	0.10	<5.0	0.10	<5.0
Calcium	1000	50	4.0	<1000	8.5	<1000	11.5	<1000
Chromium	10	1.8	0.40	<10	0.50	<10	0.60	<10
Cobalt	50	.5						
Copper	25	1						
Iron	300	29	3.2	<300	7.2	<300	10.7	<300
Lead	5.0	1.1	-0.40	<5.0	-0.20	<5.0	-0.60	<5.0
Magnesium	5000	74	3.3	<5000	9.2	<5000	13.2	<5000
Manganese	15	.7	anr					
Molybdenum	50	.6						
Nickel	40	.5	anr					
Potassium	10000	200	69.1	<10000	21.6	<10000	39.9	<10000
Selenium	10	2	0.0	<10	0.30	<10	-1.2	<10
Silver	10	.5	0.10	<10	0.0	<10	-0.20	<10
Sodium	10000	500	75.8	<10000	64.9	<10000	63.9	<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: FA1713
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB021913M1.ICP Date Analyzed: 02/19/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA10544 Units: ug/l

Time:		08:28			09:08			10:02	
Sample ID:	ICV	ICV1		CCV	CCV1		CCV	CCV2	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	41500	103.8	40000	40400	101.0	40000	40000	100.0
Antimony	2000	2020	101.0	2000	1950	97.5	2000	1960	98.0
Arsenic	2000	1990	99.5	2000	1940	97.0	2000	1960	98.0
Barium	2000	2110	105.5	2000	2040	102.0	2000	1990	99.5
Beryllium	anr								
Cadmium	2000	2050	102.5	2000	2000	100.0	2000	2000	100.0
Calcium	40000	43200	108.0	40000	40300	100.8	40000	39900	99.8
Chromium	2000	2070	103.5	2000	2040	102.0	2000	1990	99.5
Cobalt									
Copper									
Iron	40000	42800	107.0	40000	41100	102.8	40000	40000	100.0
Lead	2000	1990	99.5	2000	1990	99.5	2000	1950	97.5
Magnesium	40000	42100	105.3	40000	39700	99.3	40000	39200	98.0
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium	40000	42200	105.5	40000	39400	98.5	40000	39600	99.0
Selenium	2000	2060	103.0	2000	1950	97.5	2000	1970	98.5
Silver	250	254	101.6	250	251	100.4	250	243	97.2
Sodium	40000	38900	97.3	40000	40700	101.8	40000	40300	100.8
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: FA1713
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB021913M1.ICP Date Analyzed: 02/19/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA10544 Units: ug/l

Time:		10:53			11:44			12:34	
Sample ID:	CCV	CCV3		CCV	CCV4		CCV	CCV5	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	40800	102.0	40000	41000	102.5	40000	40200	100.5
Antimony	2000	2040	102.0	2000	2010	100.5	2000	2110	105.5
Arsenic	2000	2040	102.0	2000	2010	100.5	2000	2080	104.0
Barium	2000	2060	103.0	2000	2090	104.5	2000	2070	103.5
Beryllium	anr								
Cadmium	2000	2060	103.0	2000	2050	102.5	2000	2040	102.0
Calcium	40000	40300	100.8	40000	40500	101.3	40000	39500	98.8
Chromium	2000	2050	102.5	2000	2070	103.5	2000	2010	100.5
Cobalt									
Copper									
Iron	40000	39900	99.8	40000	40600	101.5	40000	38200	95.5
Lead	2000	2000	100.0	2000	2000	100.0	2000	1930	96.5
Magnesium	40000	39400	98.5	40000	39300	98.3	40000	39200	98.0
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium	40000	42100	105.3	40000	41700	104.3	40000	42600	106.5
Selenium	2000	2050	102.5	2000	2020	101.0	2000	2100	105.0
Silver	250	250	100.0	250	253	101.2	250	254	101.6
Sodium	40000	41600	104.0	40000	42100	105.3	40000	41200	103.0
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: FA1713
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB021913M1.ICP Date Analyzed: 02/19/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA10544 Units: ug/l

Time:		13:24			14:14			15:04	
Sample ID:	CCV	CCV6		CCV	CCV7		CCV	CCV8	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	39300	98.3	40000	40000	100.0	40000	40100	100.3
Antimony	2000	2060	103.0	2000	2070	103.5	2000	2150	107.5
Arsenic	2000	2040	102.0	2000	2060	103.0	2000	2120	106.0
Barium	2000	2030	101.5	2000	2060	103.0	2000	2060	103.0
Beryllium	anr								
Cadmium	2000	2010	100.5	2000	2030	101.5	2000	2040	102.0
Calcium	40000	38600	96.5	40000	39200	98.0	40000	39300	98.3
Chromium	2000	1960	98.0	2000	2010	100.5	2000	1980	99.0
Cobalt									
Copper									
Iron	40000	37200	93.0	40000	37900	94.8	40000	37500	93.8
Lead	2000	1890	94.5	2000	1910	95.5	2000	1880	94.0
Magnesium	40000	38500	96.3	40000	38900	97.3	40000	39400	98.5
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium	40000	42100	105.3	40000	42800	107.0	40000	43500	108.8
Selenium	2000	2050	102.5	2000	2070	103.5	2000	2140	107.0
Silver	250	247	98.8	250	251	100.4	250	250	100.0
Sodium	40000	40400	101.0	40000	41200	103.0	40000	41200	103.0
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: FA1713
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB021913M1.ICP Date Analyzed: 02/19/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA10544 Units: ug/l

Time:		15:53			16:05	
Sample ID:	CCV	CCV9		CCV	CCV10	
Metal	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	39800	99.5	40000	38800	97.0
Antimony	2000	2190	109.5	2000	2100	105.0
Arsenic	2000	2150	107.5	2000	2050	102.5
Barium	2000	2080	104.0	2000	2060	103.0
Beryllium	anr					
Cadmium	2000	2050	102.5	2000	1990	99.5
Calcium	40000	38900	97.3	40000	37900	94.8
Chromium	2000	1980	99.0	2000	1960	98.0
Cobalt						
Copper						
Iron	40000	36800	92.0	40000	36200	90.5
Lead	2000	1850	92.5	2000	1840	92.0
Magnesium	40000	39400	98.5	40000	38400	96.0
Manganese	anr					
Molybdenum						
Nickel	anr					
Potassium	40000	43800	109.5	40000	42400	106.0
Selenium	2000	2170	108.5	2000	2080	104.0
Silver	250	254	101.6	250	253	101.2
Sodium	40000	41000	102.5	40000	40100	100.3
Strontium						
Thallium	anr					
Tin						
Titanium						
Vanadium						
Zinc	anr					

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

HIGH STANDARD CHECK SUMMARY

Login Number: FA1713
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB021913M1.ICP Date Analyzed: 02/19/13 Methods: SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA10544 Units: ug/l

Time:		08:20	
Sample ID:	HSTD	HSTD1	
Metal	True	Results	% Rec
Aluminum	80000	79500	99.4
Antimony	4000	3980	99.5
Arsenic	4000	3990	99.8
Barium	4000	3980	99.5
Beryllium	anr		
Cadmium	4000	3960	99.0
Calcium	80000	79300	99.1
Chromium	4000	3960	99.0
Cobalt			
Copper			
Iron	80000	79400	99.3
Lead	4000	4070	101.8
Magnesium	80000	79300	99.1
Manganese	anr		
Molybdenum			
Nickel	anr		
Potassium	80000	80400	100.5
Selenium	4000	3980	99.5
Silver	500	496	99.2
Sodium	80000	79700	99.6
Strontium			
Thallium	anr		
Tin			
Titanium			
Vanadium			
Zinc	anr		

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

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: FA1713
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB021913M1.ICP Date Analyzed: 02/19/13 Methods: SW846 6010C
QC Limits: CRI 70-130% CRIA 70-130% Run ID: MA10544 Units: ug/l

Time:			08:42		15:44	
Sample ID:	CRI	CRIA	CRIA1		CRIA2	
Metal	True	True	Results	% Rec	Results	% Rec
Aluminum	400	200	205	102.5	193	96.5
Antimony	10	5.0	5.0	100.0	5.1	102.0
Arsenic	20	10	10.4	104.0	11.2	112.0
Barium	400	200	208	104.0	209	104.5
Beryllium	10	5.0	anr			
Cadmium	10	5.0	5.3	106.0	5.1	102.0
Calcium	2000	1000	1060	106.0	982	98.2
Chromium	20	10	11.0	110.0	10.1	101.0
Cobalt	100	50				
Copper	50	25				
Iron	600	300	332	110.7	284	94.7
Lead	10	5.0	4.9	98.0	4.3	86.0
Magnesium	10000	5000	5170	103.4	4990	99.8
Manganese	30	15	anr			
Molybdenum	100	50				
Nickel	80	40	anr			
Potassium	20000	10000	9770	97.7	10800	108.0
Selenium	20	10	12.0	120.0	10.9	109.0
Silver	20	10	9.5	95.0	9.3	93.0
Sodium	20000	10000	10400	104.0	10200	102.0
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

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

Login Number: FA1713
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB021913M1.ICP Date Analyzed: 02/19/13 Methods: SW846 6010C
QC Limits: 80 to 120 % Recovery Run ID: MA10544 Units: ug/l

Time:			08:52		09:00		15:49		16:01	
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	489000	97.8	489000	97.8
Antimony		1000	0.0		1000	100.0	0.30		1090	109.0
Arsenic		1000	1.8		1010	101.0	0.80		1070	107.0
Barium		500	-0.50		487	97.4	0.30		499	99.8
Beryllium		500	-0.10		475	95.0	-0.10		415	83.0
Cadmium		1000	-0.10		884	88.4	0.50		873	87.3
Calcium	500000	500000	488000	97.6	479000	95.8	451000	90.2	447000	89.4
Chromium		500	0.10		456	91.2	0.10		438	87.6
Cobalt		500	0.30		434	86.8	0.20		432	86.4
Copper		500	0.0		483	96.6	-2.3		508	101.6
Iron	200000	200000	190000	95.0	187000	93.5	169000	84.5	161000	80.5
Lead		1000	0.20		884	88.4	1.9		809	80.9
Magnesium	500000	500000	483000	96.6	476000	95.2	453000	90.6	462000	92.4
Manganese		500	0.0		462	92.4	-0.40		481	96.2
Molybdenum		1000	0.0		992	99.2	-0.10		938	93.8
Nickel		1000	0.0		853	85.3	-0.70		923	92.3
Potassium			38.4		40.1		104		96.9	
Selenium		1000	0.0		983	98.3	-0.60		1040	104.0
Silver		1000	-0.80		923	92.3	-0.20		946	94.6
Sodium			100		130		273		216	
Strontium		1000	4.0		1090	109.0	3.9		1010	101.0
Thallium		1000	0.0		968	96.8	1.2		860	86.0
Tin		1000	-1.1		914	91.4	-0.80		944	94.4
Titanium		1000	-5.9		1070	107.0	-5.8		973	97.3
Vanadium		500	-0.50		468	93.6	-0.10		470	94.0
Zinc		1000	-1.2		886	88.6	-0.10		862	86.2

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

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA1713
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: H40220W1.CSV Date Analyzed: 02/20/13 Methods: SW846 7470A
Analyst: JL Run ID: MA10549
Parameters: Hg

Time	Sample Description	Dilution Factor	PS Recov	Comments
12:51	MA10549-STD1	1		STD1
12:52	MA10549-STD2	1		STD2
12:54	MA10549-STD3	1		STD3
12:55	MA10549-STD4	1		STD4
12:57	MA10549-STD5	1		STD5
12:58	MA10549-STD6	1		STD6
13:00	MA10549-HSTD1	1		
13:02	MA10549-ICV1	1		
13:04	MA10549-ICB1	1		
13:06	MA10549-CRI1	1		
13:07	MA10549-CCV1	1		
13:08	MA10549-CCB1	1		
13:10	MP24643-MB1	1		
13:12	MP24643-B1	1		
13:13	FA1717-1	1		(sample used for QC only; not part of login FA1713)
13:15	MP24643-D1	1		
13:16	MP24643-SD1	5		
13:17	MP24643-S1	1		
13:18	MP24643-S2	1		
13:20	ZZZZZZ	1		
13:22	ZZZZZZ	1		
13:23	FA1717-4	1		(sample used for QC only; not part of login FA1713)
13:25	MA10549-CCV2	1		
13:26	MA10549-CCB2	1		
13:28	FA1713-1L	1		
13:29	FA1713-2L	1		
13:30	MP24643-MB2	1		
13:31	MP24643-B2	1		
---------->	Last reportable sample/prep for job FA1713			
13:33	MP24643-D2	1		
13:35	MP24644-MB1	1		
13:36	MP24644-B1	1		
13:37	FA1691-1	1		(sample used for QC only; not part of login FA1713)
13:39	MP24644-D1	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA1713
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: H40220W1.CSV Date Analyzed: 02/20/13 Methods: SW846 7470A
Analyst: JL Run ID: MA10549
Parameters: Hg

Time	Sample Description	Dilution Factor	PS Recov	Comments
13:40	MP24644-SD1	5		
13:42	MA10549-CCV3	1		
13:43	MA10549-CCB3	1		
13:45	MP24644-S1	1		
13:46	MP24644-S2	1		
13:48	MP24644-MB2	1		
13:50	MP24644-B2	1		
13:51	MP24645-MB1	1		
13:53	MP24645-B1	1		
13:54	FA1832-4	1		(sample used for QC only; not part of login FA1713)
13:56	MP24645-D1	1		
13:57	MP24645-SD1	5		
13:59	MP24645-S1	1		
14:00	MA10549-CCV4	1		
14:02	MA10549-CCB4	1		
14:04	MP24645-S2	1		
14:05	ZZZZZZ	1		
14:07	ZZZZZZ	1		
14:08	ZZZZZZ	1		
14:10	MP24645-MB2A	1		
14:11	MA10549-CRI2	1		
14:12	MA10549-CCV5	1		
14:14	MA10549-CCB5	1		

----------> Last reportable CCB for job FA1713
Refer to raw data for calibration curve and standards.

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: FA1713
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: H40220W1.CSV Date Analyzed: 02/20/13 Methods: SW846 7470A
QC Limits: result < RL Run ID: MA10549 Units: ug/l

Time:			13:04		13:08		13:26		13:43	
Sample ID:			ICB1		CCB1		CCB2		CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Mercury	0.50	.03	-0.0038	<0.50	-0.0078	<0.50	-0.011	<0.50	-0.015	<0.50

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

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: FA1713
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: H40220W1.CSV Date Analyzed: 02/20/13 Methods: SW846 7470A
QC Limits: result < RL Run ID: MA10549 Units: ug/l

Time:			14:02		14:14	
Sample ID:			CCB4		CCB5	
Metal	RL	IDL	raw	final	raw	final
Mercury	0.50	.03	-0.0049	<0.50	-0.012	<0.50

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

6.3.1
6

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA1713
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: H40220W1.CSV Date Analyzed: 02/20/13 Methods: SW846 7470A
QC Limits: 90 to 110 % Recovery Run ID: MA10549 Units: ug/l

Time:		13:02			13:07			13:25	
Sample ID:	ICV	ICV1		CCV	CCV1		CCV	CCV2	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Mercury	3	3.1	103.3	3	3.1	103.3	3	3.1	103.3

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

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA1713
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: H40220W1.CSV Date Analyzed: 02/20/13 Methods: SW846 7470A
QC Limits: 90 to 110 % Recovery Run ID: MA10549 Units: ug/l

Time:		13:42			14:00			14:12	
Sample ID:	CCV	CCV3		CCV	CCV4		CCV	CCV5	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Mercury	3	2.6	86.7	3.0	3.0	100.0	3	3.1	103.3

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

6.3.2
6

HIGH STANDARD CHECK SUMMARY

Login Number: FA1713
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: H40220W1.CSV Date Analyzed: 02/20/13 Methods: SW846 7470A
QC Limits: 95 to 105 % Recovery Run ID: MA10549 Units: ug/l

Time:		13:00	
Sample ID:	HSTD	HSTD1	
Metal	True	Results	% Rec
Mercury	6	5.9	98.3

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

6.3.3

6

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: FA1713
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: H40220W1.CSV Date Analyzed: 02/20/13 Methods: SW846 7470A
QC Limits: 80 to 120 % Recovery Run ID: MA10549 Units: ug/l

Time:			13:06		14:11	
Sample ID:	CRI	CRIA	CRI1		CRI2	
Metal	True	True	Results	% Rec	Results	% Rec
Mercury	0.20		0.20	100.0	0.19	95.0

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

6.3.4
6

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: FA1713
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

QC Batch ID: MP24624
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 02/15/13

Metal	RL	IDL	MDL	MB raw	final
Aluminum	200	15	15	-10	<200
Antimony	6.0	1.3	1.3	-2.0	<6.0
Arsenic	10	1.6	2.5	-1.5	<10
Barium	200	1	1		
Beryllium	4.0	.5	.5		
Cadmium	5.0	.5	.5	-0.10	<5.0
Calcium	1000	50	50	11.4	<1000
Chromium	10	1.8	2	-0.20	<10
Cobalt	50	.5	.5		
Copper	25	1	1		
Iron	300	29	29	-3.5	<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	-25	<10000
Selenium	10	2	2	0.50	<10
Silver	10	.5	.5		
Sodium	10000	500	500	13.0	<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 MP24624: FA1713-1F, FA1713-2F, FA1713-3F

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: FA1713
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

QC Batch ID: MP24624
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 02/15/13 02/15/13

Metal	FA1709-1 Original	DUP	RPD	QC Limits	FA1709-1 Original	MSD	Spikelot MPFLICP1	% Rec	MSD RPD	QC Limit
Aluminum	30.6	41.9	31.2 (a)	0-20	30.6	29200	27000	108.0	2.8	20
Antimony	0.0	0.0	NC	0-20	0.0	486	500	97.2	10.5	20
Arsenic	4.6	4.9	6.3	0-20	4.6	1910	2000	95.3	8.0	20
Barium	anr									
Beryllium										
Cadmium	0.0	0.0	NC	0-20	0.0	50.5	50	101.0	0.4	20
Calcium	68500	70000	2.2	0-20	68500	92900	25000	97.6	4.7	20
Chromium	0.0	0.0	NC	0-20	0.0	218	200	109.0	4.2	20
Cobalt										
Copper										
Iron	1290	1300	0.8	0-20	1290	27400	26000	100.4	0.4	20
Lead	anr									
Magnesium	2650	2670	0.8	0-20	2650	27400	25000	99.0	1.1	20
Manganese	anr									
Molybdenum										
Nickel										
Potassium	1050	1040	1.0	0-20	1050	26400	25000	101.4	8.7	20
Selenium	0.0	0.0	NC	0-20	0.0	1940	2000	97.0	7.9	20
Silver	anr									
Sodium	8460	8650	2.2	0-20	8460	35500	25000	108.2	1.7	20
Strontium										
Thallium										
Tin										
Titanium										
Vanadium										
Zinc	anr									

Associated samples MP24624: FA1713-1F, FA1713-2F, FA1713-3F

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: FA1713
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

QC Batch ID: MP24624
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 02/15/13

Metal	FA1709-1 Original	MS	Spikelot MPFLICP1	% Rec	QC Limits
Aluminum	30.6	28400	27000	105.1	80-120
Antimony	0.0	540	500	108.0	80-120
Arsenic	4.6	2070	2000	103.3	80-120
Barium	anr				
Beryllium					
Cadmium	0.0	50.3	50	100.6	80-120
Calcium	68500	88600	25000	80.4	80-120
Chromium	0.0	209	200	104.5	80-120
Cobalt					
Copper					
Iron	1290	27300	26000	100.0	80-120
Lead	anr				
Magnesium	2650	27700	25000	100.2	80-120
Manganese	anr				
Molybdenum					
Nickel					
Potassium	1050	28800	25000	111.0	80-120
Selenium	0.0	2100	2000	105.0	80-120
Silver	anr				
Sodium	8460	34900	25000	105.8	80-120
Strontium					
Thallium					
Tin					
Titanium					
Vanadium					
Zinc	anr				

Associated samples MP24624: FA1713-1F, FA1713-2F, FA1713-3F

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: FA1713
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

QC Batch ID: MP24624
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 02/15/13

Metal	BSP Result	Spikelot MPFLICP1	% Rec	QC Limits
Aluminum	29600	27000	109.6	80-120
Antimony	498	500	99.6	80-120
Arsenic	1940	2000	97.0	80-120
Barium	anr			
Beryllium				
Cadmium	52.7	50	105.4	80-120
Calcium	27800	25000	111.2	80-120
Chromium	222	200	111.0	80-120
Cobalt				
Copper				
Iron	27000	26000	103.8	80-120
Lead	anr			
Magnesium	25800	25000	103.2	80-120
Manganese	anr			
Molybdenum				
Nickel				
Potassium	25600	25000	102.4	80-120
Selenium	1980	2000	99.0	80-120
Silver	anr			
Sodium	27400	25000	109.6	80-120
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc	anr			

Associated samples MP24624: FA1713-1F, FA1713-2F, FA1713-3F

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

SERIAL DILUTION RESULTS SUMMARY

Login Number: FA1713
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

QC Batch ID: MP24624
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 02/15/13

Metal	FA1709-1 Original	SDL 1:5	%DIF	QC Limits
Aluminum	30.6	0.00	100.0(a)	0-10
Antimony	0.00	0.00	NC	0-10
Arsenic	4.60	0.00	100.0(a)	0-10
Barium	anr			
Beryllium				
Cadmium	0.00	0.00	NC	0-10
Calcium	68500	69500	1.5	0-10
Chromium	0.00	0.00	NC	0-10
Cobalt				
Copper				
Iron	1290	1230	4.9	0-10
Lead	anr			
Magnesium	2650	2680	1.2	0-10
Manganese	anr			
Molybdenum				
Nickel				
Potassium	1050	0.00	100.0(a)	0-10
Selenium	0.00	0.00	NC	0-10
Silver	anr			
Sodium	8460	8360	1.1	0-10
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc	anr			

Associated samples MP24624: FA1713-1F, FA1713-2F, FA1713-3F

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: FA1713
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

QC Batch ID: MP24624
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 02/15/13

Metal	Sample ml	Final ml	FA1709-1 Raw	Corr.**	PS ug/l	Spike ml	Spike ug/ml	Spike ug/l	% Rec	QC Limits
Aluminum	9.8	10	30.6	29.988	2604	0.2	125	2500	103.0	80-120
Antimony	9.8	10	0	0	92.7	0.2	5	100	92.7	80-120
Arsenic	9.8	10	4.6	4.508	100.4	0.2	5	100	95.9	80-120
Barium										
Beryllium										
Cadmium	9.8	10	0	0	51.9	0.2	2.5	50	103.8	80-120
Calcium	9.8	10	68490	67120.2	73040	0.2	250	5000	118.4	80-120
Chromium	9.8	10	0	0	54.9	0.2	2.5	50	109.8	80-120
Cobalt										
Copper										
Iron	9.8	10	1291	1265.18	4194	0.2	150	3000	97.6	80-120
Lead										
Magnesium	9.8	10	2647	2594.06	7407	0.2	250	5000	96.3	80-120
Manganese										
Molybdenum										
Nickel										
Potassium	9.8	10	1049	1028.02	10700	0.2	500	10000	96.7	80-120
Selenium	9.8	10	0	0	96.5	0.2	5	100	96.5	80-120
Silver										
Sodium	9.8	10	8457	8287.86	18890	0.2	500	10000	106.0	80-120
Strontium										
Thallium										
Tin										
Titanium										
Vanadium										
Zinc										

Associated samples MP24624: FA1713-1F, FA1713-2F, FA1713-3F

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

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: FA1713
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

QC Batch ID: MP24638
Matrix Type: LEACHATE

Methods: SW846 6010C
Units: mg/l

Prep Date:					02/19/13		02/19/13
Metal	RL	IDL	MDL	MB raw	final	MB raw	final
Aluminum	0.20	.015	.015				
Antimony	0.0060	.0013	.0013				
Arsenic	0.010	.0016	.0025	0.00020	<0.010	-0.0020	<0.10
Barium	0.20	.001	.005	-0.00020	<0.20	0.0010	<2.0
Beryllium	0.0040	.0005	.0005				
Cadmium	0.0050	.0005	.0005	-0.00010	<0.0050	-0.0020	<0.050
Calcium	1.0	.05	.05				
Chromium	0.010	.0018	.002	0.00010	<0.010	0.0	<0.10
Cobalt	0.050	.0005	.0005				
Copper	0.025	.001	.001				
Iron	0.30	.029	.029				
Lead	0.0050	.0011	.0011	-0.00080	<0.0050	-0.011	<0.050
Magnesium	5.0	.074	.074				
Manganese	0.015	.0007	.0007				
Molybdenum	0.050	.0006	.001				
Nickel	0.040	.0005	.0005				
Potassium	10	.2	.2				
Selenium	0.010	.002	.002	0.0	<0.010	0.0010	<0.10
Silver	0.010	.0005	.0005	-0.00010	<0.010	-0.0010	<0.10
Sodium	10	.5	.5				
Strontium	0.010	.0005	.0005				
Thallium	0.010	.0013	.0013				
Tin	0.050	.0007	.0018				
Titanium	0.010	.0009	.001				
Vanadium	0.050	.0005	.001				
Zinc	0.020	.003	.01				

Associated samples MP24638: FA1713-1L, FA1713-2L

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: FA1713
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

QC Batch ID: MP24638
Matrix Type: LEACHATE

Methods: SW846 6010C
Units: mg/l

Prep Date:	02/19/13						02/19/13		
Metal	FA1713-1L Original	DUP	RPD	QC Limits	FA1713-1L Original	MS	Spikelot MPFLICP1	% Rec	QC Limits
Aluminum									
Antimony									
Arsenic	0.0	0.0	NC	0-20	0.0	20.4	20.0	102.0	80-120
Barium	0.075	0.072	4.1	0-20	0.075	20.9	20.0	104.1	80-120
Beryllium									
Cadmium	0.0	0.0	NC	0-20	0.0	0.50	0.50	100.0	80-120
Calcium									
Chromium	0.0	0.0	NC	0-20	0.0	2.0	2.0	100.0	80-120
Cobalt									
Copper									
Iron									
Lead	0.0	0.0	NC	0-20	0.0	4.4	5.0	88.0	80-120
Magnesium									
Manganese									
Molybdenum									
Nickel									
Potassium									
Selenium	0.0	0.0	NC	0-20	0.0	20.8	20.0	104.0	80-120
Silver	0.0	0.0	NC	0-20	0.0	0.49	0.50	98.0	80-120
Sodium									
Strontium									
Thallium									
Tin									
Titanium									
Vanadium									
Zinc									

Associated samples MP24638: FA1713-1L, FA1713-2L

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: FA1713
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

QC Batch ID: MP24638
Matrix Type: LEACHATE

Methods: SW846 6010C
Units: mg/l

Prep Date: 02/19/13

Metal	FA1713-1L Original	MSD	Spikelot MPFLICP1	% Rec	MSD RPD	QC Limit
Aluminum						
Antimony						
Arsenic	0.0	21.1	20.0	105.5	3.4	20
Barium	0.075	21.6	20.0	107.6	3.3	20
Beryllium						
Cadmium	0.0	0.51	0.50	102.0	2.0	20
Calcium						
Chromium	0.0	2.1	2.0	105.0	4.9	20
Cobalt						
Copper						
Iron						
Lead	0.0	4.5	5.0	90.0	2.2	20
Magnesium						
Manganese						
Molybdenum						
Nickel						
Potassium						
Selenium	0.0	21.4	20.0	107.0	2.8	20
Silver	0.0	0.51	0.50	102.0	4.0	20
Sodium						
Strontium						
Thallium						
Tin						
Titanium						
Vanadium						
Zinc						

Associated samples MP24638: FA1713-1L, FA1713-2L

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: FA1713
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

QC Batch ID: MP24638
Matrix Type: LEACHATE

Methods: SW846 6010C
Units: mg/l

Prep Date:			02/19/13				02/19/13	
Metal	BSP Result	Spikelot MPFLICP1	% Rec	QC Limits	BSP Result	Spikelot MPFLICP1	% Rec	QC Limits
Aluminum								
Antimony								
Arsenic	1.9	2.0	95.0	80-120	20.9	20.0	104.5	80-120
Barium	2.1	2.0	105.0	80-120	21.1	20.0	105.5	80-120
Beryllium								
Cadmium	0.050	0.050	100.0	80-120	0.51	0.50	102.0	80-120
Calcium								
Chromium	0.20	0.20	100.0	80-120	2.0	2.0	100.0	80-120
Cobalt								
Copper								
Iron								
Lead	0.45	0.50	90.0	80-120	4.3	5.0	86.0	80-120
Magnesium								
Manganese								
Molybdenum								
Nickel								
Potassium								
Selenium	2.0	2.0	100.0	80-120	21.5	20.0	107.5	80-120
Silver	0.049	0.050	98.0	80-120	0.49	0.50	98.0	80-120
Sodium								
Strontium								
Thallium								
Tin								
Titanium								
Vanadium								
Zinc								

Associated samples MP24638: FA1713-1L, FA1713-2L

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

SERIAL DILUTION RESULTS SUMMARY

Login Number: FA1713
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

QC Batch ID: MP24638
Matrix Type: LEACHATE

Methods: SW846 6010C
Units: ug/l

Prep Date: 02/19/13

Metal	FA1713-1L Original	SDL 1:5	%DIF	QC Limits
Aluminum				
Antimony				
Arsenic	0.00	0.00	NC	0-10
Barium	7.50	8.70	16.0 (a)	0-10
Beryllium				
Cadmium	0.00	0.00	NC	0-10
Calcium				
Chromium	0.00	0.00	NC	0-10
Cobalt				
Copper				
Iron				
Lead	0.00	0.00	NC	0-10
Magnesium				
Manganese				
Molybdenum				
Nickel				
Potassium				
Selenium	0.00	0.00	NC	0-10
Silver	0.00	0.00	NC	0-10
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc				

Associated samples MP24638: FA1713-1L, FA1713-2L

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).

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: FA1713
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

QC Batch ID: MP24643 Methods: SW846 7470A
Matrix Type: LEACHATE Units: mg/l

Prep Date: 02/20/13 02/20/13

Metal	RL	IDL	MDL	MB raw	final	MB raw	final
Mercury	0.00050	.00003	.00005	0.0000082	<0.00050	0.00020	<0.0050

Associated samples MP24643: FA1713-1L, FA1713-2L

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: FA1713
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

QC Batch ID: MP24643
Matrix Type: LEACHATE

Methods: SW846 7470A
Units: mg/l

Prep Date: 02/20/13 02/20/13

Metal	FA1717-1 Original	DUP	RPD	QC Limits	FA1717-1 Original	MS	Spikelot HGFLWS1	% Rec	QC Limits
Mercury	0.0	0.0	NC	0-20	0.0	0.031	0.030	103.3	80-120

Associated samples MP24643: FA1713-1L, FA1713-2L

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: FA1713
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

QC Batch ID: MP24643
Matrix Type: LEACHATE

Methods: SW846 7470A
Units: mg/l

Prep Date: 02/20/13

Metal	FA1717-1 Original	MSD	Spikelot HGFLWS1	% Rec	MSD RPD	QC Limit
Mercury	0.0	0.031	0.030	103.3	0.0	20

Associated samples MP24643: FA1713-1L, FA1713-2L

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: FA1713
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

QC Batch ID: MP24643
Matrix Type: LEACHATE

Methods: SW846 7470A
Units: mg/l

Prep Date: 02/20/13 02/20/13

Metal	BSP Result	Spikelot HGFLWS1	% Rec	QC Limits	BSP Result	Spikelot HGFLWS1	% Rec	QC Limits
Mercury	0.0030	0.0030	100.0	80-120	0.031	0.030	103.3	80-120

Associated samples MP24643: FA1713-1L, FA1713-2L

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

SERIAL DILUTION RESULTS SUMMARY

Login Number: FA1713
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

QC Batch ID: MP24643
Matrix Type: LEACHATE

Methods: SW846 7470A
Units: ug/l

Prep Date: 02/20/13

Metal	FA1717-1 Original	SDL 1:5	%DIF	QC Limits
Mercury	0.00	0.00	NC	0-10

Associated samples MP24643: FA1713-1L, FA1713-2L

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(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: FA1713
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	GN54292	25	0.0	mg/l	250	255	102.0	90-113%
Alkalinity, Total as CaCO3	GN54293	5.0	0.0	mg/l	250	251	100.0	90-113%
Chloride	GP20986/GN54173	2.0	0.0	mg/l	50	51.2	102.4	90-110%
Fluoride	GP20986/GN54173	0.20	0.0	mg/l	2.5	2.69	107.6	90-110%
Nitrogen, Nitrate	GP20986/GN54173	0.10	0.0	mg/l	2.5	2.49	99.6	90-110%
Nitrogen, Nitrite	GP20986/GN54173	0.10	0.0	mg/l	2.5	2.59	103.6	90-110%
Phosphate, Ortho	GP20982/GN54152	0.10	0.0	mg/l	.300	0.29	95.7	83-116%
Phosphorus, Total	GP21028/GN54264	0.10	0.0	mg/l	.300	0.28	92.1	81-118%
Solids, Total Dissolved	GN54214	100	0.0	mg/l				
Solids, Total Dissolved	GN54239	100	15.0	mg/l				
Specific Conductivity	GN54159	1.0	0.0	umhos/cm				
Sulfate	GP20986/GN54173	2.0	0.0	mg/l	50	53.1	106.2	90-110%

Associated Samples:
Batch GN54159: FA1713-1, FA1713-2, FA1713-3
Batch GN54214: FA1713-2, FA1713-3
Batch GN54239: FA1713-1
Batch GN54292: FA1713-1
Batch GN54293: FA1713-2, FA1713-3
Batch GP20982: FA1713-1F, FA1713-2F, FA1713-3F
Batch GP20986: FA1713-1, FA1713-2, FA1713-3
Batch GP21028: FA1713-1, FA1713-2, FA1713-3
(*) Outside of QC limits

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: FA1713
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	GN54292	FA1665-5	mg/l	555	550	0.9	0-20%
Alkalinity, Total as CaCO3	GN54293	FA1765-4	mg/l	0.60 U	0.0	0.0	0-20%
Phosphate, Ortho	GP20982/GN54152	FA1713-1F	mg/l	257	253	1.6	0-26%
Phosphorus, Total	GP21028/GN54264	FA1882-6	mg/l	4.4	4.4	0.5	0-22%
Solids, Total Dissolved	GN54214	FA1764-2	mg/l	122	122	0.0	0-5%
Solids, Total Dissolved	GN54239	FA1765-1	mg/l	25300	28100(a)	10.5*(a)	0-5%
Specific Conductivity	GN54159	FA1713-1	umhos/cm	4530	4540	0.2	0-10%
pH	GN54157	FA1713-2	su	7.04	7.03	0.1	0-10%

Associated Samples:
Batch GN54157: FA1713-1, FA1713-2, FA1713-3
Batch GN54159: FA1713-1, FA1713-2, FA1713-3
Batch GN54214: FA1713-2, FA1713-3
Batch GN54239: FA1713-1
Batch GN54292: FA1713-1
Batch GN54293: FA1713-2, FA1713-3
Batch GP20982: FA1713-1F, FA1713-2F, FA1713-3F
Batch GP21028: FA1713-1, FA1713-2, FA1713-3
(*) Outside of QC limits
(a) Confirmed by Re-analysis.

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: FA1713
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
Alkalinity, Total as CaCO3	GN54292	FA1665-5	mg/l	555	250	775	88.0*(a)	90-113%
Alkalinity, Total as CaCO3	GN54293	FA1765-4	mg/l	0.60 U	250	255	102.0	90-113%
Chloride	GP20986/GN54173	FA1735-1	mg/l	6.4	50	56.2	99.6	90-110%
Fluoride	GP20986/GN54173	FA1735-1	mg/l	0.11	2.5	2.0	75.6N(a)	90-110%
Nitrogen, Nitrate	GP20986/GN54173	FA1735-1	mg/l	1.1	2.5	3.4	92.0	90-110%
Nitrogen, Nitrite	GP20986/GN54173	FA1735-1	mg/l	0.0	2.5	2.4	96.0	90-110%
Phosphate, Ortho	GP20982/GN54152	FA1713-1F	mg/l	257	.300	285	9430.0(b)	83-116%
Phosphorus, Total	GP21028/GN54264	FA1882-6	mg/l	4.4	.300	4.7	86.6	81-118%
Sulfate	GP20986/GN54173	FA1735-1	mg/l	1.8	50	49.8	96.0	90-110%

Associated Samples:
Batch GN54292: FA1713-1
Batch GN54293: FA1713-2, FA1713-3
Batch GP20982: FA1713-1F, FA1713-2F, FA1713-3F
Batch GP20986: FA1713-1, FA1713-2, FA1713-3
Batch GP21028: FA1713-1, FA1713-2, FA1713-3
(*) 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: FA1713
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	GP20986/GN54173	FA1735-1	mg/l	6.4	50	56.2	0.0	
Fluoride	GP20986/GN54173	FA1735-1	mg/l	0.11	2.5	2.0	0.0N(a)	
Nitrogen, Nitrate	GP20986/GN54173	FA1735-1	mg/l	1.1	2.5	3.4	0.0	
Nitrogen, Nitrite	GP20986/GN54173	FA1735-1	mg/l	0.0	2.5	2.4	0.0	
Phosphate, Ortho	GP20982/GN54152	FA1713-1F	mg/l	257	.300	285	0.0(b)	26%
Phosphorus, Total	GP21028/GN54264	FA1882-6	mg/l	4.4	.300	4.73	1.3	22%
Sulfate	GP20986/GN54173	FA1735-1	mg/l	1.8	50	49.7	0.2	

Associated Samples:
Batch GP20982: FA1713-1F, FA1713-2F, FA1713-3F
Batch GP20986: FA1713-1, FA1713-2, FA1713-3
Batch GP21028: FA1713-1, FA1713-2, FA1713-3
(*) 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.

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA1713
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: 313140201.TXT Date Analyzed: 02/14/13 Methods: EPA 300/SW846 9056A
Analyst: AA Run ID: GN54173
Parameters: Chloride,Fluoride,Nitrogen, Nitrate,Sulfate

Time	Sample Description	Dilution Factor	PS Recov	Comments
10:51	GN54173-CCV1	1		
11:06	GN54173-CCB1	1		
11:22	GP20986-MB1	1		
11:38	GP20986-B1	1		
12:26	FA1713-1	25		
12:42	FA1713-2	10		
12:57	FA1713-3	10		
13:13	ZZZZZZ	1		
13:29	ZZZZZZ	1		
13:45	ZZZZZZ	10		
14:01	GN54173-CCV2	1		
14:17	GN54173-CCB2	1		
14:33	ZZZZZZ	10		
15:23	ZZZZZZ	1		
15:39	FA1735-1	1		(sample used for QC only; not part of login FA1713)
15:55	FA1735-3	1		(sample used for QC only; not part of login FA1713)
16:11	ZZZZZZ	1		
16:26	ZZZZZZ	1		
16:42	ZZZZZZ	1		
16:58	ZZZZZZ	1		
17:14	ZZZZZZ	1		
17:30	ZZZZZZ	1		
17:46	GN54173-CCV3	1		
18:02	GN54173-CCB3	1		
18:17	ZZZZZZ	1		
18:33	ZZZZZZ	1		
18:49	ZZZZZZ	1		
19:05	ZZZZZZ	1		
19:21	FA1713-2	25		
19:37	FA1713-3	25		
19:53	ZZZZZZ	25		
20:09	ZZZZZZ	25		
20:25	GN54173-CCV4	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA1713
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: 313140201.TXT Date Analyzed: 02/14/13 Methods: EPA 300/SW846 9056A
Analyst: AA Run ID: GN54173
Parameters: Chloride,Fluoride,Nitrogen, Nitrate,Sulfate

Time	Sample Description	Dilution Factor	PS Recov	Comments
20:41	GN54173-CCB4	1		
20:56	GP20986-S1	1		
21:12	GP20986-S2	1		
21:28	GP20986-S3	1		
21:44	GP20986-S4	1		
22:00	GN54173-CCV5	1		
22:16	GN54173-CCB5	1		
22:32	GP20984-MB1	1		
22:48	GP20984-B1	1		
23:04	ZZZZZZ	5		
23:19	ZZZZZZ	5		
23:35	ZZZZZZ	5		
23:51	ZZZZZZ	5		
00:07	FA1564-5	5		(sample used for QC only; not part of login FA1713)
00:23	ZZZZZZ	5		
00:39	ZZZZZZ	5		
01:11	GN54173-CCV6	1		
01:27	GN54173-CCB6	1		
01:43	ZZZZZZ	5		
01:58	ZZZZZZ	5		
02:14	ZZZZZZ	5		
02:30	FA1616-5	5		(sample used for QC only; not part of login FA1713)
02:46	ZZZZZZ	2		
03:02	GP20984-S1	5		
03:18	GP20984-S2	5		
03:34	GP20984-S3	5		
03:50	GP20984-S4	5		
04:21	GN54173-CCV7	1		
04:37	GN54173-CCB7	1		

Refer to raw data for calibration curve and standards.

Instrument QC Summary
Inorganics Analyses

Login Number: FA1713
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: 313140201.TXT Date Analyzed: 02/14/13 Methods: EPA 300/SW846 9056A
Run ID: GN54173 Units: mg/l

Sample Number	Parameter	Result	RL	IDL/MDL	True Value	% Recov.	QC Limits
GN54173-CCV1	Fluoride	2.5	0.20	0.060	2.5	100.0	90-110
GN54173-CCV1	Chloride	51.3	2.0	0.80	50	102.6	90-110
GN54173-CCV1	Nitrogen, Nitrate	2.5	0.10	0.050	2.5	100.0	90-110
GN54173-CCV1	Sulfate	51.7	2.0	0.60	50	103.4	90-110
GN54173-CCB1	Fluoride	0.060 U	0.20	0.060			
GN54173-CCB1	Chloride	0.80 U	2.0	0.80			
GN54173-CCB1	Nitrogen, Nitrate	0.050 U	0.10	0.050			
GN54173-CCB1	Sulfate	0.60 U	2.0	0.60			
GN54173-CCV2	Fluoride	2.4	0.20	0.060	2.5	96.0	90-110
GN54173-CCV2	Chloride	51.2	2.0	0.80	50	102.4	90-110
GN54173-CCV2	Nitrogen, Nitrate	2.6	0.10	0.050	2.5	104.0	90-110
GN54173-CCV2	Sulfate	50.1	2.0	0.60	50	100.2	90-110
GN54173-CCB2	Fluoride	0.060 U	0.20	0.060			
GN54173-CCB2	Chloride	0.80 U	2.0	0.80			
GN54173-CCB2	Nitrogen, Nitrate	0.050 U	0.10	0.050			
GN54173-CCB2	Sulfate	0.60 U	2.0	0.60			
GN54173-CCV3	Fluoride	2.4	0.20	0.060	2.5	96.0	90-110
GN54173-CCV3	Chloride	51.2	2.0	0.80	50	102.4	90-110
GN54173-CCV3	Nitrogen, Nitrate	2.5	0.10	0.050	2.5	100.0	90-110
GN54173-CCV3	Sulfate	50.1	2.0	0.60	50	100.2	90-110
GN54173-CCB3	Fluoride	0.060 U	0.20	0.060			
GN54173-CCB3	Chloride	0.80 U	2.0	0.80			
GN54173-CCB3	Nitrogen, Nitrate	0.050 U	0.10	0.050			
GN54173-CCB3	Sulfate	0.60 U	2.0	0.60			
GN54173-CCV4	Fluoride	2.4	0.20	0.060	2.5	96.0	90-110
GN54173-CCV4	Chloride	51.2	2.0	0.80	50	102.4	90-110
GN54173-CCV4	Nitrogen, Nitrate	2.6	0.10	0.050	2.5	104.0	90-110
GN54173-CCV4	Sulfate	50.0	2.0	0.60	50	100.0	90-110
GN54173-CCB4	Fluoride	0.060 U	0.20	0.060			
GN54173-CCB4	Chloride	0.80 U	2.0	0.80			
GN54173-CCB4	Nitrogen, Nitrate	0.050 U	0.10	0.050			
GN54173-CCB4	Sulfate	0.60 U	2.0	0.60			
GN54173-CCV5	Fluoride	2.4	0.20	0.060	2.5	96.0	90-110
GN54173-CCV5	Chloride	51.3	2.0	0.80	50	102.6	90-110
GN54173-CCV5	Nitrogen, Nitrate	2.5	0.10	0.050	2.5	100.0	90-110
GN54173-CCV5	Sulfate	50.3	2.0	0.60	50	100.6	90-110
GN54173-CCB5	Fluoride	0.060 U	0.20	0.060			
GN54173-CCB5	Chloride	0.80 U	2.0	0.80			
GN54173-CCB5	Nitrogen, Nitrate	0.050 U	0.10	0.050			
GN54173-CCB5	Sulfate	0.60 U	2.0	0.60			
GN54173-CCV6	Fluoride	2.4	0.20	0.060	2.5	96.0	90-110
GN54173-CCV6	Chloride	51.2	2.0	0.80	50	102.4	90-110
GN54173-CCV6	Nitrogen, Nitrate	2.5	0.10	0.050	2.5	100.0	90-110
GN54173-CCV6	Sulfate	50.6	2.0	0.60	50	101.2	90-110
GN54173-CCB6	Fluoride	0.060 U	0.20	0.060			
GN54173-CCB6	Chloride	0.80 U	2.0	0.80			
GN54173-CCB6	Nitrogen, Nitrate	0.050 U	0.10	0.050			
GN54173-CCB6	Sulfate	0.60 U	2.0	0.60			
GN54173-CCV7	Fluoride	2.4	0.20	0.060	2.5	96.0	90-110
GN54173-CCV7	Chloride	51.3	2.0	0.80	50	102.6	90-110
GN54173-CCV7	Nitrogen, Nitrate	2.5	0.10	0.050	2.5	100.0	90-110
GN54173-CCV7	Sulfate	50.8	2.0	0.60	50	101.6	90-110
GN54173-CCB7	Fluoride	0.060 U	0.20	0.060			
GN54173-CCB7	Chloride	0.80 U	2.0	0.80			
GN54173-CCB7	Nitrogen, Nitrate	0.050 U	0.10	0.050			

Instrument QC Summary
Inorganics Analyses

Login Number: FA1713
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: 313140201.TXT Date Analyzed: 02/14/13 Methods: EPA 300/SW846 9056A
Run ID: GN54173 Units: mg/l

Sample Number	Parameter	Result	RL	IDL/MDL	True Value	% Recov.	QC Limits
GN54173-CCB7	Sulfate	0.60 U	2.0	0.60			

(!) Outside of QC limits

Southeast ACCUTEST LABORATORIES

03/01/13

Technical Report for

WSP Environment & Energy

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

36785.01

Accutest Job Number: FA1765

Sampling Dates: 02/13/13 - 02/14/13

Report to:

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Total number of pages in report: **104**

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: FA1765

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
FA1765-1	02/14/13	10:35	TP	02/15/13	AQ	Ground Water	A-34-022
FA1765-1F	02/14/13	10:35	TP	02/15/13	AQ	Groundwater Filtered	A-34-022
FA1765-2	02/13/13	15:30	TP	02/15/13	AQ	Ground Water	A-27-135
FA1765-2F	02/13/13	15:30	TP	02/15/13	AQ	Groundwater Filtered	A-27-135
FA1765-2L	02/13/13	15:30	TP	02/15/13	AQ	Ground Water	A-27-135
FA1765-3	02/13/13	17:05	TP	02/15/13	AQ	Ground Water	A-27-090
FA1765-3F	02/13/13	17:05	TP	02/15/13	AQ	Groundwater Filtered	A-27-090
FA1765-3L	02/13/13	17:05	TP	02/15/13	AQ	Ground Water	A-27-090
FA1765-4	02/14/13	11:05	TP	02/15/13	AQ	Equipment Blank	EB 02142013
FA1765-4F	02/14/13	11:05	TP	02/15/13	AQ	Equip Blank Filtered	EB 02142013

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: WSP Environment & Energy **Job No:** FA1765

Site: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID **Report Date:** 2/28/2013 5:33:58 PM

5 Samples were collected on/between 02/13/2013 and 02/14/2013 and were received at Accutest SE on 02/15/2013 properly preserved, at 2.8 Deg. C and intact. These Samples received an Accutest job number of FA1765. 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:** MP24632

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) FA1781-1DUP, FA1781-1MS, FA1781-1MSD, FA1781-1PS, FA1781-1SDL were used as the QC samples for metals.
Matrix Spike Recovery(s) for Iron, Sodium are outside control limits. Spike recovery indicates possible matrix interference.

Matrix Spike Recovery(s) for Aluminum 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, Cadmium, Chromium are outside control limits for sample MP24632-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

MP24632-PS1 for Aluminum: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP24632-PS1 for Antimony: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP24632-PS1 for Arsenic: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP24632-PS1 for Iron: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP24632-PS1 for Selenium: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

FA1765-1F for Selenium: Elevated reporting limit(s) due to matrix interference.

FA1765-1F for Chromium: Elevated reporting limit(s) due to matrix interference.

FA1765-1F for Cadmium: Elevated reporting limit(s) due to matrix interference.

FA1765-1F for Antimony: Elevated reporting limit(s) due to matrix interference.

FA1765-1F for Arsenic: Elevated reporting limit(s) due to matrix interference.

Matrix: LEACHATE **Batch ID:** MP24642

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) FA1765-2LDUP, FA1765-2LMS, FA1765-2LMSD, FA1765-2LSDL were used as the QC samples for metals.

RPD(s) for Duplicate for Arsenic, Selenium are outside control limits for sample MP24642-D1. RPD acceptable due to low duplicate and sample concentrations.

RPD(s) for Serial Dilution for Arsenic, Barium, Selenium are outside control limits for sample MP24642-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Metals By Method SW846 7470A

Matrix: LEACHATE **Batch ID:** MP24664

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) FA1765-2LDUP, FA1765-2LMS, FA1765-2LMSD, FA1765-2LSDL were used as the QC samples for metals.

Wet Chemistry By Method EPA 120.1

Matrix: AQ **Batch ID:** GN54168

All method blanks for this batch meet method specific criteria.

Sample(s) FA1765-1DUP was used as the QC sample for Specific Conductivity.

The following samples were run outside of holding time for method EPA 120.1: FA1765-1, FA1765-2, FA1765-3, FA1765-4.

FA1765-1, FA1765-2, FA1765-3, FA1765-4 for Specific Conductivity: Received out of hold & analyzed by request.

Wet Chemistry By Method EPA 300/SW846 9056A

Matrix: AQ **Batch ID:** GP20997

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) FA1764-3MS, FA1764-3MSD were used as the QC samples for Chloride, Nitrogen, Nitrate, Fluoride, Sulfate.

Matrix Spike Recovery(s)/Matrix Spike Duplicate Recovery(s) for Fluoride are outside control limits. Spike recovery indicates possible matrix interference. Refer to lab control or spike blank for recovery information.

FA1765-1 for Chloride: Dilution required due to matrix interference.

FA1765-1 for Nitrogen, Nitrate: Dilution required due to matrix interference.

FA1765-2 for Chloride: Dilution required due to matrix interference.

FA1765-3 for Chloride: Dilution required due to matrix interference.

FA1765-3 for Fluoride: Dilution required due to matrix interference.

Wet Chemistry By Method EPA 365.3

Matrix: AQ **Batch ID:** GP20987

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) FA1765-3FDUP, FA1765-3FMSD were used as the QC samples for Phosphate, Ortho.

Matrix Spike Recovery(s)/Matrix Spike Duplicate Recovery(s) for Phosphate, Ortho 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:** GP21019

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA1850-7DUP, FA1850-7MS, FA1850-7MSD were used as the QC samples for Phosphorus, Total.

Matrix: AQ **Batch ID:** GP21039

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA1779-5DUP, FA1779-5MS, FA1779-5MSD were used as the QC samples for Phosphorus, Total.

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

Matrix: AQ **Batch ID:** GN54170

Sample(s) FA1766-1DUP was used as the QC sample for pH.

FA1765-1, FA1765-2, FA1765-3, FA1765-4 for pH: Field analysis required. Received out of hold time and analyzed by request.

Wet Chemistry By Method SM19 2320B

Matrix: AQ **Batch ID:** GN54292

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA1665-5DUP, FA1665-5MS were used as the QC samples for Alkalinity, Total as CaCO3.

Matrix Spike Recovery(s) for Alkalinity, Total as CaCO3 are outside control limits. Spike recovery indicates possible matrix interference. Refer to lab control or spike blank for recovery information.

Matrix: AQ **Batch ID:** GN54293

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA1765-4DUP, FA1765-4MS were used as the QC samples for Alkalinity, Total as CaCO3.

Wet Chemistry By Method SM19 2540C

Matrix: AQ **Batch ID:** GN54214

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA1764-2DUP was used as the QC sample for Solids, Total Dissolved.

Matrix: AQ **Batch ID:** GN54239

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA1765-1DUP was used as the QC sample for Solids, Total Dissolved.

RPD(s) for Duplicate for Solids, Total Dissolved are outside control limits for sample GN54239-D1. Probable cause is due to sample non-homogeneity.

GN54239-D1 for Solids, Total Dissolved: Confirmed by Re-analysis.

FA1765-1 for Solids, Total Dissolved: Confirmed by reanalysis.

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: February 28, 2013

Kim Benham, Client Services (signature on file)

Summary of Hits

Job Number: FA1765
Account: WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID
Collected: 02/13/13 thru 02/14/13

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA1765-1	**A-34-022**					
Fluoride		2230	100	30	mg/l	EPA 300/SW846 9056A
Phosphorus, Total		2850	2500	700	mg/l	EPA 365.3
Solids, Total Dissolved [a]		25300	100	10	mg/l	SM19 2540C
Specific Conductivity [b]		18400	1.0	1.0	umhos/cm	EPA 120.1
Sulfate		14800	1000	300	mg/l	EPA 300/SW846 9056A
pH [c]		2.28			su	SM 4500H B/SW 9040C
FA1765-1F	**A-34-022**					
Aluminum		1860000	2000	150	ug/l	SW846 6010C
Arsenic [d]		266	100	25	ug/l	SW846 6010C
Cadmium [d]		3970	50	5.0	ug/l	SW846 6010C
Calcium		561000	10000	500	ug/l	SW846 6010C
Chromium [d]		3800	100	20	ug/l	SW846 6010C
Iron		2240000	3000	290	ug/l	SW846 6010C
Magnesium		1430000	50000	740	ug/l	SW846 6010C
Potassium		533000	100000	2000	ug/l	SW846 6010C
Sodium		941000	100000	5000	ug/l	SW846 6010C
Phosphate, Ortho		1140	500	95	mg/l	EPA 365.3
FA1765-2	**A-27-135**					
Alkalinity, Bicarbonate as CaCO3		962	5.0	5.0	mg/l	SM18 4500CO2D
Alkalinity, Total as CaCO3		963	25	13	mg/l	SM19 2320B
Chloride [e]		52.0 J	100	40	mg/l	EPA 300/SW846 9056A
Fluoride		19.6	10	3.0	mg/l	EPA 300/SW846 9056A
Nitrogen, Nitrate		19.3	5.0	2.5	mg/l	EPA 300/SW846 9056A
Phosphorus, Total		121	100	28	mg/l	EPA 365.3
Solids, Total Dissolved		3070	100	10	mg/l	SM19 2540C
Specific Conductivity [f]		4220	1.0	1.0	umhos/cm	EPA 120.1
Sulfate		1510	100	30	mg/l	EPA 300/SW846 9056A
pH [c]		6.65			su	SM 4500H B/SW 9040C
FA1765-2F	**A-27-135**					
Aluminum		22.0 J	200	15	ug/l	SW846 6010C
Arsenic		45.4	10	2.5	ug/l	SW846 6010C
Calcium		360000	1000	50	ug/l	SW846 6010C
Iron		57.4 J	300	29	ug/l	SW846 6010C
Magnesium		181000	5000	74	ug/l	SW846 6010C
Potassium		33600	10000	200	ug/l	SW846 6010C
Selenium		43.4	10	2.0	ug/l	SW846 6010C
Sodium		386000	100000	5000	ug/l	SW846 6010C

Summary of Hits

Job Number: FA1765
Account: WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID
Collected: 02/13/13 thru 02/14/13

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Phosphate, Ortho		43.5	10	1.9	mg/l	EPA 365.3
FA1765-2L	**A-27-135**					
Arsenic		0.036 J	0.10	0.025	mg/l	SW846 6010C
Barium		0.079 J	2.0	0.050	mg/l	SW846 6010C
Selenium		0.021 J	0.10	0.020	mg/l	SW846 6010C
FA1765-3	**A-27-090**					
Alkalinity, Bicarbonate as CaCO3		657	5.0	5.0	mg/l	SM18 4500CO2D
Alkalinity, Total as CaCO3		658	25	13	mg/l	SM19 2320B
Chloride [e]		30.1 J	50	20	mg/l	EPA 300/SW846 9056A
Nitrogen, Nitrate		66.8	2.5	1.3	mg/l	EPA 300/SW846 9056A
Phosphorus, Total		191	100	28	mg/l	EPA 365.3
Solids, Total Dissolved		2920	100	10	mg/l	SM19 2540C
Specific Conductivity [f]		4060	1.0	1.0	umhos/cm	EPA 120.1
Sulfate		1580	50	15	mg/l	EPA 300/SW846 9056A
pH [c]		6.45			su	SM 4500H B/SW 9040C
FA1765-3F	**A-27-090**					
Arsenic		20.3	10	2.5	ug/l	SW846 6010C
Calcium		360000	1000	50	ug/l	SW846 6010C
Magnesium		190000	5000	74	ug/l	SW846 6010C
Potassium		45200	10000	200	ug/l	SW846 6010C
Selenium		44.0	10	2.0	ug/l	SW846 6010C
Sodium		291000	100000	5000	ug/l	SW846 6010C
Phosphate, Ortho		48.1	10	1.9	mg/l	EPA 365.3
FA1765-3L	**A-27-090**					
Barium		0.078 J	2.0	0.050	mg/l	SW846 6010C
Selenium		0.049 J	0.10	0.020	mg/l	SW846 6010C
Silver		0.0050 J	0.10	0.0050	mg/l	SW846 6010C
FA1765-4	**EB 02142013**					
Phosphorus, Total		0.041 J	0.10	0.028	mg/l	EPA 365.3
Solids, Total Dissolved		13.0 J	100	10	mg/l	SM19 2540C
Specific Conductivity [b]		1.6	1.0	1.0	umhos/cm	EPA 120.1
pH [c]		5.66			su	SM 4500H B/SW 9040C

Summary of Hits

Job Number: FA1765
Account: WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID
Collected: 02/13/13 thru 02/14/13

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA1765-4F	**EB 02142013**					
Calcium		77.3 J	1000	50	ug/l	SW846 6010C

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

Southeast ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	A-34-022		
Lab Sample ID:	FA1765-1	**Date Sampled:**	02/14/13
Matrix:	AQ - Ground Water	**Date Received:**	02/15/13
		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	5.0 U	5.0	5.0	mg/l	1	02/23/13	AC	SM18 4500CO2D
Alkalinity, Carbonate	5.0 U	5.0	5.0	mg/l	1	02/23/13	AC	SM18 4500CO2D
Alkalinity, Total as CaCO3	0.60 U	5.0	0.60	mg/l	1	02/23/13 14:37	AC	SM19 2320B
Chloride [a]	80 U	200	80	mg/l	100	02/15/13 12:29	AA	EPA 300/SW846 9056A
Fluoride	2230	100	30	mg/l	500	02/15/13 17:11	AA	EPA 300/SW846 9056A
Nitrogen, Nitrate [a]	5.0 U	10	5.0	mg/l	100	02/15/13 12:29	AA	EPA 300/SW846 9056A
Phosphorus, Total	2850	2500	700	mg/l	25000	02/20/13 12:05	LE	EPA 365.3
Solids, Total Dissolved [b]	25300	100	10	mg/l	1	02/20/13	KC	SM19 2540C
Specific Conductivity [c]	18400	1.0	1.0	umhos/cm	1	02/15/13 12:50	AA	EPA 120.1
Sulfate	14800	1000	300	mg/l	500	02/15/13 17:11	AA	EPA 300/SW846 9056A
pH [d]	2.28			su	1	02/15/13 13:42	HH	SM 4500H B/SW 9040C

(a) Dilution required due to matrix interference.
(b) Confirmed by reanalysis.
(c) Sample analyzed beyond hold 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-34-022		
Lab Sample ID:	FA1765-1F	**Date Sampled:**	02/14/13
Matrix:	AQ - Groundwater Filtered	**Date Received:**	02/15/13
		Percent Solids:	n/a
Project:	Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	1860000	2000	150	ug/l	10	02/18/13	02/20/13	LM	SW846 6010C [1]	SW846 3010A [2]
Antimony [a]	13 U	60	13	ug/l	10	02/18/13	02/20/13	LM	SW846 6010C [1]	SW846 3010A [2]
Arsenic [a]	266	100	25	ug/l	10	02/18/13	02/20/13	LM	SW846 6010C [1]	SW846 3010A [2]
Cadmium [a]	3970	50	5.0	ug/l	10	02/18/13	02/20/13	LM	SW846 6010C [1]	SW846 3010A [2]
Calcium	561000	10000	500	ug/l	10	02/18/13	02/20/13	LM	SW846 6010C [1]	SW846 3010A [2]
Chromium [a]	3800	100	20	ug/l	10	02/18/13	02/20/13	LM	SW846 6010C [1]	SW846 3010A [2]
Iron	2240000	3000	290	ug/l	10	02/18/13	02/20/13	LM	SW846 6010C [1]	SW846 3010A [2]
Magnesium	1430000	50000	740	ug/l	10	02/18/13	02/20/13	LM	SW846 6010C [1]	SW846 3010A [2]
Potassium	533000	100000	2000	ug/l	10	02/18/13	02/20/13	LM	SW846 6010C [1]	SW846 3010A [2]
Selenium [a]	20 U	100	20	ug/l	10	02/18/13	02/20/13	LM	SW846 6010C [1]	SW846 3010A [2]
Sodium	941000	100000	5000	ug/l	10	02/18/13	02/20/13	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10551
(2) Prep QC Batch: MP24632

(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:	FA1765-1F	**Date Sampled:**	02/14/13
Matrix:	AQ - Groundwater Filtered	**Date Received:**	02/15/13
		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	1140	500	95	mg/l	5000	02/15/13 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

Report of Analysis

Client Sample ID:	A-27-135		
Lab Sample ID:	FA1765-2	**Date Sampled:**	02/13/13
Matrix:	AQ - Ground Water	**Date Received:**	02/15/13
		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	962	5.0	5.0	mg/l	1	02/23/13	AC	SM18 4500CO2D
Alkalinity, Carbonate	5.0 U	5.0	5.0	mg/l	1	02/23/13	AC	SM18 4500CO2D
Alkalinity, Total as CaCO3	963	25	13	mg/l	1	02/23/13 14:00	AC	SM19 2320B
Chloride [a]	52.0 J	100	40	mg/l	50	02/15/13 12:45	AA	EPA 300/SW846 9056A
Fluoride	19.6	10	3.0	mg/l	50	02/15/13 12:45	AA	EPA 300/SW846 9056A
Nitrogen, Nitrate	19.3	5.0	2.5	mg/l	50	02/15/13 12:45	AA	EPA 300/SW846 9056A
Phosphorus, Total	121	100	28	mg/l	1000	02/22/13 12:30	LE	EPA 365.3
Solids, Total Dissolved	3070	100	10	mg/l	1	02/19/13	KC	SM19 2540C
Specific Conductivity [b]	4220	1.0	1.0	umhos/cm	1	02/15/13 12:50	AA	EPA 120.1
Sulfate	1510	100	30	mg/l	50	02/15/13 12:45	AA	EPA 300/SW846 9056A
pH [c]	6.65			su	1	02/15/13 13:42	HH	SM 4500H B/SW 9040C

(a) Dilution required due to matrix interference.
(b) Received out of hold.
(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-27-135		
Lab Sample ID:	FA1765-2F	**Date Sampled:**	02/13/13
Matrix:	AQ - Groundwater Filtered	**Date Received:**	02/15/13
		Percent Solids:	n/a
Project:	Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	22.0 J	200	15	ug/l	1	02/18/13	02/19/13	LM	SW846 6010C [1]	SW846 3010A [3]
Antimony	1.3 U	6.0	1.3	ug/l	1	02/18/13	02/19/13	LM	SW846 6010C [1]	SW846 3010A [3]
Arsenic	45.4	10	2.5	ug/l	1	02/18/13	02/19/13	LM	SW846 6010C [1]	SW846 3010A [3]
Cadmium	0.50 U	5.0	0.50	ug/l	1	02/18/13	02/19/13	LM	SW846 6010C [1]	SW846 3010A [3]
Calcium	360000	1000	50	ug/l	1	02/18/13	02/19/13	LM	SW846 6010C [1]	SW846 3010A [3]
Chromium	2.0 U	10	2.0	ug/l	1	02/18/13	02/19/13	LM	SW846 6010C [1]	SW846 3010A [3]
Iron	57.4 J	300	29	ug/l	1	02/18/13	02/19/13	LM	SW846 6010C [1]	SW846 3010A [3]
Magnesium	181000	5000	74	ug/l	1	02/18/13	02/19/13	LM	SW846 6010C [1]	SW846 3010A [3]
Potassium	33600	10000	200	ug/l	1	02/18/13	02/19/13	LM	SW846 6010C [1]	SW846 3010A [3]
Selenium	43.4	10	2.0	ug/l	1	02/18/13	02/19/13	LM	SW846 6010C [1]	SW846 3010A [3]
Sodium	386000	100000	5000	ug/l	10	02/18/13	02/20/13	LM	SW846 6010C [2]	SW846 3010A [3]

(1) Instrument QC Batch: MA10544
(2) Instrument QC Batch: MA10551
(3) Prep QC Batch: MP24632

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:	FA1765-2F	**Date Sampled:**	02/13/13
Matrix:	AQ - Groundwater Filtered	**Date Received:**	02/15/13
		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	43.5	10	1.9	mg/l	100	02/15/13 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

Report of Analysis

Client Sample ID:	A-27-135		
Lab Sample ID:	FA1765-2L	**Date Sampled:**	02/13/13
Matrix:	AQ - Ground Water	**Date Received:**	02/15/13
		Percent Solids:	n/a
Project:	Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID		

Metals Analysis, TCLP Leachate SW846 1311

Analyte	Result	HW#	MCL	RL	MDL	Units	DF	Prep	Analyzed	By	Method
Arsenic	0.036 J	D004	5.0	0.10	0.025	mg/l	1	02/20/13	02/20/13	LM	SW846 6010C [1]
Barium	0.079 J	D005	100	2.0	0.050	mg/l	1	02/20/13	02/20/13	LM	SW846 6010C [1]
Cadmium	0.0050 U	D006	1.0	0.050	0.0050	mg/l	1	02/20/13	02/20/13	LM	SW846 6010C [1]
Chromium	0.020 U	D007	5.0	0.10	0.020	mg/l	1	02/20/13	02/20/13	LM	SW846 6010C [1]
Lead	0.011 U	D008	5.0	0.050	0.011	mg/l	1	02/20/13	02/20/13	LM	SW846 6010C [1]
Mercury	0.00050 U	D009	0.20	0.0050	0.00050	mg/l	1	02/23/13	02/23/13	JL	SW846 7470A [2]
Selenium	0.021 J	D010	1.0	0.10	0.020	mg/l	1	02/20/13	02/20/13	LM	SW846 6010C [1]
Silver	0.0050 U	D011	5.0	0.10	0.0050	mg/l	1	02/20/13	02/20/13	LM	SW846 6010C [1]

(1) Instrument QC Batch: MA10550
(2) Instrument QC Batch: MA10560
(3) Prep QC Batch: MP24642
(4) Prep QC Batch: MP24664

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
MCL = Maximum Contamination Level (40 CFR 261 6/96) J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	A-27-090		
Lab Sample ID:	FA1765-3	**Date Sampled:**	02/13/13
Matrix:	AQ - Ground Water	**Date Received:**	02/15/13
		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	657	5.0	5.0	mg/l	1	02/23/13	AC	SM18 4500CO2D
Alkalinity, Carbonate	5.0 U	5.0	5.0	mg/l	1	02/23/13	AC	SM18 4500CO2D
Alkalinity, Total as CaCO3	658	25	13	mg/l	1	02/23/13 14:00	AC	SM19 2320B
Chloride [a]	30.1 J	50	20	mg/l	25	02/15/13 13:01	AA	EPA 300/SW846 9056A
Fluoride [a]	1.5 U	5.0	1.5	mg/l	25	02/15/13 13:01	AA	EPA 300/SW846 9056A
Nitrogen, Nitrate	66.8	2.5	1.3	mg/l	25	02/15/13 13:01	AA	EPA 300/SW846 9056A
Phosphorus, Total	191	100	28	mg/l	1000	02/22/13 12:30	LE	EPA 365.3
Solids, Total Dissolved	2920	100	10	mg/l	1	02/19/13	KC	SM19 2540C
Specific Conductivity [b]	4060	1.0	1.0	umhos/cm	1	02/15/13 12:50	AA	EPA 120.1
Sulfate	1580	50	15	mg/l	25	02/15/13 13:01	AA	EPA 300/SW846 9056A
pH [c]	6.45			su	1	02/15/13 13:42	HH	SM 4500H B/SW 9040C

(a) Dilution required due to matrix interference.
(b) Received out of hold.
(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-27-090		
Lab Sample ID:	FA1765-3F	**Date Sampled:**	02/13/13
Matrix:	AQ - Groundwater Filtered	**Date Received:**	02/15/13
		Percent Solids:	n/a
Project:	Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	15 U	200	15	ug/l	1	02/18/13	02/19/13	LM	SW846 6010C [1]	SW846 3010A [3]
Antimony	1.3 U	6.0	1.3	ug/l	1	02/18/13	02/19/13	LM	SW846 6010C [1]	SW846 3010A [3]
Arsenic	20.3	10	2.5	ug/l	1	02/18/13	02/19/13	LM	SW846 6010C [1]	SW846 3010A [3]
Cadmium	0.50 U	5.0	0.50	ug/l	1	02/18/13	02/19/13	LM	SW846 6010C [1]	SW846 3010A [3]
Calcium	360000	1000	50	ug/l	1	02/18/13	02/19/13	LM	SW846 6010C [1]	SW846 3010A [3]
Chromium	2.0 U	10	2.0	ug/l	1	02/18/13	02/19/13	LM	SW846 6010C [1]	SW846 3010A [3]
Iron	29 U	300	29	ug/l	1	02/18/13	02/19/13	LM	SW846 6010C [1]	SW846 3010A [3]
Magnesium	190000	5000	74	ug/l	1	02/18/13	02/19/13	LM	SW846 6010C [1]	SW846 3010A [3]
Potassium	45200	10000	200	ug/l	1	02/18/13	02/19/13	LM	SW846 6010C [1]	SW846 3010A [3]
Selenium	44.0	10	2.0	ug/l	1	02/18/13	02/19/13	LM	SW846 6010C [1]	SW846 3010A [3]
Sodium	291000	100000	5000	ug/l	10	02/18/13	02/20/13	LM	SW846 6010C [2]	SW846 3010A [3]

(1) Instrument QC Batch: MA10544
(2) Instrument QC Batch: MA10551
(3) Prep QC Batch: MP24632

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:	FA1765-3F	**Date Sampled:**	02/13/13
Matrix:	AQ - Groundwater Filtered	**Date Received:**	02/15/13
		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	48.1	10	1.9	mg/l	100	02/15/13 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

Report of Analysis

Client Sample ID:	A-27-090		
Lab Sample ID:	FA1765-3L	**Date Sampled:**	02/13/13
Matrix:	AQ - Ground Water	**Date Received:**	02/15/13
		Percent Solids:	n/a
Project:	Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID		

Metals Analysis, TCLP Leachate SW846 1311

Analyte	Result	HW#	MCL	RL	MDL	Units	DF	Prep	Analyzed	By	Method
Arsenic	0.025 U	D004	5.0	0.10	0.025	mg/l	1	02/20/13	02/20/13	LM	SW846 6010C [1]
Barium	0.078 J	D005	100	2.0	0.050	mg/l	1	02/20/13	02/20/13	LM	SW846 6010C [1]
Cadmium	0.0050 U	D006	1.0	0.050	0.0050	mg/l	1	02/20/13	02/20/13	LM	SW846 6010C [1]
Chromium	0.020 U	D007	5.0	0.10	0.020	mg/l	1	02/20/13	02/20/13	LM	SW846 6010C [1]
Lead	0.011 U	D008	5.0	0.050	0.011	mg/l	1	02/20/13	02/20/13	LM	SW846 6010C [1]
Mercury	0.00050 U	D009	0.20	0.0050	0.00050	mg/l	1	02/23/13	02/23/13	JL	SW846 7470A [2]
Selenium	0.049 J	D010	1.0	0.10	0.020	mg/l	1	02/20/13	02/20/13	LM	SW846 6010C [1]
Silver	0.0050 J	D011	5.0	0.10	0.0050	mg/l	1	02/20/13	02/20/13	LM	SW846 6010C [1]

(1) Instrument QC Batch: MA10550
(2) Instrument QC Batch: MA10560
(3) Prep QC Batch: MP24642
(4) Prep QC Batch: MP24664

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
MCL = Maximum Contamination Level (40 CFR 261 6/96) J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	EB 02142013		
Lab Sample ID:	FA1765-4	**Date Sampled:**	02/14/13
Matrix:	AQ - Equipment Blank	**Date Received:**	02/15/13
		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	5.0 U	5.0	5.0	mg/l	1	02/23/13	AC	SM18 4500CO2D
Alkalinity, Carbonate	5.0 U	5.0	5.0	mg/l	1	02/23/13	AC	SM18 4500CO2D
Alkalinity, Total as CaCO3	0.60 U	5.0	0.60	mg/l	1	02/23/13 14:37	AC	SM19 2320B
Chloride	0.80 U	2.0	0.80	mg/l	1	02/15/13 13:17	AA	EPA 300/SW846 9056A
Fluoride	0.060 U	0.20	0.060	mg/l	1	02/15/13 13:17	AA	EPA 300/SW846 9056A
Nitrogen, Nitrate	0.050 U	0.10	0.050	mg/l	1	02/15/13 13:17	AA	EPA 300/SW846 9056A
Phosphorus, Total	0.041 J	0.10	0.028	mg/l	1	02/22/13 12:30	LE	EPA 365.3
Solids, Total Dissolved	13.0 J	100	10	mg/l	1	02/20/13	KC	SM19 2540C
Specific Conductivity [a]	1.6	1.0	1.0	umhos/cm	1	02/15/13 12:50	AA	EPA 120.1
Sulfate	0.60 U	2.0	0.60	mg/l	1	02/15/13 13:17	AA	EPA 300/SW846 9056A
pH [b]	5.66			su	1	02/15/13 13:42	HH	SM 4500H B/SW 9040C

(a) Sample analyzed 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:	EB 02142013		
Lab Sample ID:	FA1765-4F	**Date Sampled:**	02/14/13
Matrix:	AQ - Equip Blank Filtered	**Date Received:**	02/15/13
		Percent Solids:	n/a
Project:	Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	15 U	200	15	ug/l	1	02/18/13	02/19/13	LM	SW846 6010C [1]	SW846 3010A [2]
Antimony	1.3 U	6.0	1.3	ug/l	1	02/18/13	02/19/13	LM	SW846 6010C [1]	SW846 3010A [2]
Arsenic	2.5 U	10	2.5	ug/l	1	02/18/13	02/19/13	LM	SW846 6010C [1]	SW846 3010A [2]
Cadmium	0.50 U	5.0	0.50	ug/l	1	02/18/13	02/19/13	LM	SW846 6010C [1]	SW846 3010A [2]
Calcium	77.3 J	1000	50	ug/l	1	02/18/13	02/19/13	LM	SW846 6010C [1]	SW846 3010A [2]
Chromium	2.0 U	10	2.0	ug/l	1	02/18/13	02/19/13	LM	SW846 6010C [1]	SW846 3010A [2]
Iron	29 U	300	29	ug/l	1	02/18/13	02/19/13	LM	SW846 6010C [1]	SW846 3010A [2]
Magnesium	74 U	5000	74	ug/l	1	02/18/13	02/19/13	LM	SW846 6010C [1]	SW846 3010A [2]
Potassium	200 U	10000	200	ug/l	1	02/18/13	02/19/13	LM	SW846 6010C [1]	SW846 3010A [2]
Selenium	2.0 U	10	2.0	ug/l	1	02/18/13	02/19/13	LM	SW846 6010C [1]	SW846 3010A [2]
Sodium	500 U	10000	500	ug/l	1	02/18/13	02/19/13	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10544
(2) Prep QC Batch: MP24632

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:	EB 02142013		
Lab Sample ID:	FA1765-4F	**Date Sampled:**	02/14/13
Matrix:	AQ - Equip Blank Filtered	**Date Received:**	02/15/13
		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	02/15/13 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 # FA1765 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#: 573-217-6759
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	TCLP-8
1	A-34-022	09/14/13	1035	TP	GW	4		X			X	X				X	
2	A-27-135	09/13/13	1530	TP	GW	5		X			X	X				X	X
3	A-27-090	09/13/13	1705	TP	GW	5		X			X	X				X	X
4	EB 02142013	09/14/13	1105	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

LAB USE ONLY

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	021413 1315	2 FX	3 FX	9-15-13	4 J. Coyne (ASE) 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: 2 Cooler Temperature (s) Celsius: 3.8 3.0

FA1765: Chain of Custody
Page 1 of 3

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: FA1765 CLIENT: WSP PROJECT: AGRIUM

DATE/TIME RECEIVED: 2-15-13 09:30 {MM/DD/YY 24:00} NIMBER OF COOLERS RECEIVED: 2

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

AIRBILL NUMBERS:

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 2.6
- [ ] CORRECTED TEMPS: 2.8 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 2-15-13 REVIEWER SIGNATURE/DATE R Willem 02-15-13

NF 12/10 receipt confirmation 122910.xls

5.1 5

FA1765: Chain of Custody
Page 2 of 2

FA1765: Chain of Custody
Page 3 of 3

Metals and O-Phos - Field Filtered

Note: A-34-022 High Phosphate

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

- total dissolved solids (TDS)
- dissolved 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

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: FA1765
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB021913M1.ICP Date Analyzed: 02/19/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10544
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
08:05	MA10544-STD1	1		STDA
08:09	MA10544-STD2	1		STDB
08:12	MA10544-STD3	1		STDC
08:16	MA10544-STD4	1		STDD
08:20	MA10544-HSTD1	1		
08:28	MA10544-ICV1	1		
08:37	MA10544-ICB1	1		
08:42	MA10544-CRIA1	1		
08:52	MA10544-ICSA1	1		
09:00	MA10544-ICSAB1	1		
09:08	MA10544-CCV1	1		
09:17	MA10544-CCB1	1		
09:21	MP24632-MB1	1		
09:25	MP24632-B1	1		
09:33	FA1781-1	1		(sample used for QC only; not part of login FA1765)
09:37	MP24632-D1	1		
09:41	MP24632-SD1	5		
09:45	MP24632-PS1	1		
09:50	MP24632-S1	1		
09:54	MP24632-S2	1		
09:58	ZZZZZZ	1		
10:02	MA10544-CCV2	1		
10:06	MA10544-CCB2	1		
10:10	ZZZZZZ	1		
10:14	ZZZZZZ	1		
10:18	ZZZZZZ	1		
10:23	ZZZZZZ	1		
10:27	ZZZZZZ	1		
10:31	ZZZZZZ	1		
10:35	ZZZZZZ	1		
10:40	ZZZZZZ	1		
10:49	FA1765-2F	1		
10:53	MA10544-CCV3	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA1765
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB021913M1.ICP Date Analyzed: 02/19/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10544
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

	Time	Sample Description	Dilution Factor	PS Recov	Comments
	10:57	MA10544-CCB3	1		
	11:02	FA1765-3F	1		
	11:06	FA1765-4F	1		
---------->	Last reportable sample/prep for job FA1765				
	11:10	ZZZZZZ	1		
	11:14	ZZZZZZ	1		
	11:19	ZZZZZZ	1		
	11:23	ZZZZZZ	1		
	11:27	ZZZZZZ	1		
	11:44	MA10544-CCV4	1		
	11:48	MA10544-CCB4	1		
	12:34	MA10544-CCV5	1		
	12:38	MA10544-CCB5	1		
	12:51	MP24624-S1	1		
	12:55	ZZZZZZ	5		
	12:59	ZZZZZZ	5		
	13:03	ZZZZZZ	2		
	13:07	ZZZZZZ	10		
	13:11	ZZZZZZ	2		
	13:16	ZZZZZZ	2		
	13:20	ZZZZZZ	2		
	13:24	MA10544-CCV6	1		
	13:28	MA10544-CCB6	1		
	13:32	ZZZZZZ	5		
	13:37	ZZZZZZ	5		
	13:41	ZZZZZZ	10		
	13:45	ZZZZZZ	2		
	13:49	ZZZZZZ	2		
	13:54	ZZZZZZ	4		
	13:58	ZZZZZZ	2		
	14:02	ZZZZZZ	4		
	14:06	ZZZZZZ	10		
	14:10	ZZZZZZ	20		
	14:14	MA10544-CCV7	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA1765
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB021913M1.ICP Date Analyzed: 02/19/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10544
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
14:18	MA10544-CCB7	1		
14:22	ZZZZZZ	5		
14:27	ZZZZZZ	10		
14:31	ZZZZZZ	5		
14:35	MP24638-MB1	1		
14:39	MP24638-B1	1		
14:43	FA1713-1L	1		(sample used for QC only; not part of login FA1765)
14:47	MP24638-D1	1		
14:52	MP24638-SD1	5		
14:56	MP24638-S1	1		
15:00	MP24638-S2	1		
15:04	MA10544-CCV8	1		
15:08	MA10544-CCB8	1		
15:12	ZZZZZZ	1		
15:16	ZZZZZZ	1		
15:20	ZZZZZZ	1		
15:24	ZZZZZZ	1		
15:28	FA1717-4	1		(sample used for QC only; not part of login FA1765)
15:32	MP24638-D2	1		
15:36	MP24638-MB2	1		
15:41	MP24638-B2	1		
15:44	MA10544-CRIA2	1		
15:49	MA10544-ICSA2	1		
15:53	MA10544-CCV9	1		
15:57	MA10544-CCB9	1		
16:01	MA10544-ICSAB2	1		
16:05	MA10544-CCV10	1		
16:09	MA10544-CCB10	1		

----------> Last reportable CCB for job FA1765
Refer to raw data for calibration curve and standards.

INTERNAL STANDARD SUMMARY

Login Number: FA1765
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB021913M1.ICP Date Analyzed: 02/19/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10544
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
08:05	MA10544-STD1	7558	44201	6555	3138
08:09	MA10544-STD2	7504	44044	6552	2920
08:12	MA10544-STD3	7240	42668	6535	2617
08:16	MA10544-STD4	6990	41471	6501	2370
08:20	MA10544-HSTD1	7013	41630	6528	2374
08:28	MA10544-ICV1	7180	42234	6487	2574
08:37	MA10544-ICB1	7576 R	44456 R	6590 R	3142 R
08:42	MA10544-CRIA1	7510	43498	6516	2992
08:52	MA10544-ICSA1	6647	38150	6340	2291
09:00	MA10544-ICSAB1	6697	38490	6372	2255
09:08	MA10544-CCV1	7304	42225	6501	2590
09:17	MA10544-CCB1	7550	45049	6575	3151
09:21	MP24632-MB1	7506	45198	6632	3117
09:25	MP24632-B1	7426	43843	6712	2794
09:33	FA1781-1	11105 !	63180 !	9808 !	2678
09:37	MP24632-D1	10951 !	63003 !	9734 !	2666
09:41	MP24632-SD1	8435	49345	7371	3009
09:45	MP24632-PS1	10865 !	62817 !	9755 !	2629
09:50	MP24632-S1	10603 !	61457 !	9652 !	2565
09:54	MP24632-S2	10643 !	61104 !	9618 !	2526
09:58	ZZZZZZ	8547	49107	7466	2804
10:02	MA10544-CCV2	7396	43736	6665	2657
10:06	MA10544-CCB2	7490	44827	6603	3126
10:10	ZZZZZZ	7656	45873	6861	2990
10:14	ZZZZZZ	8363	48478	7451	2738
10:18	ZZZZZZ	10683 !	61968 !	9372 !	2819
10:23	ZZZZZZ	33187 !	193090 !	30027 !	2561
10:27	ZZZZZZ	6846	39359	6641	2389
10:31	ZZZZZZ	8752	52375	7937	2910
10:35	ZZZZZZ	8012	45551	7178	2615
10:40	ZZZZZZ	25423 !	147310 !	22960 !	2558
10:49	FA1765-2F	6443	38186	6096	2322
10:53	MA10544-CCV3	7195	42874	6387	2605

INTERNAL STANDARD SUMMARY

Login Number: FA1765
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB021913M1.ICP Date Analyzed: 02/19/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10544
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
10:57	MA10544-CCB3	7588	45173	6461	3174
11:02	FA1765-3F	6663	38745	6155	2372
11:06	FA1765-4F	7493	44592	6310	3111
11:10	ZZZZZZ	6813	40621	6076	2606
11:14	ZZZZZZ	7639	45241	6890	2704
11:19	ZZZZZZ	6980	40490	6384	2600
11:23	ZZZZZZ	7054	40467	6275	2571
11:27	ZZZZZZ	9666 !	56615 !	8318 !	2831
11:44	MA10544-CCV4	7193	41948	6170	2590
11:48	MA10544-CCB4	7525	44837	6371	3167
12:34	MA10544-CCV5	7123	42964	6340	2636
12:38	MA10544-CCB5	7546	44916	6409	3181
12:51	MP24624-S1	7234	43226	6377	2728
12:55	ZZZZZZ	7043	41747	6150	2749
12:59	ZZZZZZ	7380	43516	6325	2855
13:03	ZZZZZZ	6777	40139	6163	2488
13:07	ZZZZZZ	7233	42856	6202	2859
13:11	ZZZZZZ	7759	44941	6638	2703
13:16	ZZZZZZ	7738	45393	6598	2703
13:20	ZZZZZZ	9090	54119	7766	2878
13:24	MA10544-CCV6	7192	43411	6285	2668
13:28	MA10544-CCB6	7434	44148	6159	3146
13:32	ZZZZZZ	6824	40639	6083	2508
13:37	ZZZZZZ	6921	41661	6210	2505
13:41	ZZZZZZ	8758	51924	7313	2972
13:45	ZZZZZZ	8549	49742	7220	2752
13:49	ZZZZZZ	8548	50858	7270	2761
13:54	ZZZZZZ	7972	47830	6831	2922
13:58	ZZZZZZ	8438	50065	7260	2800
14:02	ZZZZZZ	7326	43217	6120	2924
14:06	ZZZZZZ	7603	43392	6434	2653
14:10	ZZZZZZ	7393	43840	6278	2869
14:14	MA10544-CCV7	7113	42334	6093	2635

INTERNAL STANDARD SUMMARY

Login Number: FA1765
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB021913M1.ICP Date Analyzed: 02/19/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10544
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
14:18	MA10544-CCB7	7406	44114	6075	3146
14:22	ZZZZZZ	7144	40916	6106	2547
14:27	ZZZZZZ	7370	43197	6285	2676
14:31	ZZZZZZ	7388	42659	6343	2531
14:35	MP24638-MB1	7526	45387	6208	3194
14:39	MP24638-B1	7345	43292	6127	2824
14:43	FA1713-1L	7210	43513	6156	2943
14:47	MP24638-D1	7168	43842	6227	2968
14:52	MP24638-SD1	7358	44582	6192	3140
14:56	MP24638-S1	7053	42340	6083	2726
15:00	MP24638-S2	7001	42138	6047	2713
15:04	MA10544-CCV8	7008	42643	6027	2654
15:08	MA10544-CCB8	7215	44732	6098	3198
15:12	ZZZZZZ	7117	43684	6126	3022
15:16	ZZZZZZ	7359	43488	6169	2886
15:20	ZZZZZZ	7366	43645	6288	2732
15:24	ZZZZZZ	7153	44204	6196	2994
15:28	FA1717-4	7015	42670	6092	2872
15:32	MP24638-D2	7081	42483	6094	2836
15:36	MP24638-MB2	7357	45552	6180	3216
15:41	MP24638-B2	7053	43362	6150	2840
15:44	MA10544-CRIA2	7126	43220	5988	3027
15:49	MA10544-ICSA2	6523	38124	5812	2332
15:53	MA10544-CCV9	6905	42148	5915	2651
15:57	MA10544-CCB9	7123	44283	6084	3184
16:01	MA10544-ICSAB2	6366	37573	5754	2290
16:05	MA10544-CCV10	7056	42283	6003	2658
16:09	MA10544-CCB10	7232	44415	5986	3174

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: FA1765
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB021913M1.ICP Date Analyzed: 02/19/13 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA10544 Units: ug/l

Time:			08:37		09:17		10:06		10:57	
Sample ID:			ICB1		CCB1		CCB2		CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	15	-5.7	<200	-9.5	<200	-1.7	<200	1.5	<200
Antimony	6.0	1.3	0.0	<6.0	-1.1	<6.0	-0.10	<6.0	0.60	<6.0
Arsenic	10	1.6	0.20	<10	0.70	<10	0.30	<10	0.50	<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	-1.5	<1000	6.6	<1000	9.7	<1000	14.2	<1000
Chromium	10	1.8	0.30	<10	0.30	<10	0.30	<10	0.80	<10
Cobalt	50	.5								
Copper	25	1								
Iron	300	29	-0.70	<300	5.5	<300	10.3	<300	12.3	<300
Lead	5.0	1.1	anr							
Magnesium	5000	74	-5.4	<5000	-4.3	<5000	14.3	<5000	-5.1	<5000
Manganese	15	.7	anr							
Molybdenum	50	.6								
Nickel	40	.5	anr							
Potassium	10000	200	21.1	<10000	7.6	<10000	48.1	<10000	170	<10000
Selenium	10	2	0.90	<10	0.80	<10	1.3	<10	1.2	<10
Silver	10	.5	anr							
Sodium	10000	500	1.2	<10000	21.4	<10000	47.0	<10000	191	<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: FA1765
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB021913M1.ICP Date Analyzed: 02/19/13 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA10544 Units: ug/l

Time:			11:48		12:38		13:28		14:18	
Sample ID:			CCB4		CCB5		CCB6		CCB7	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	15	7.2	<200	1.5	<200	6.2	<200	-10	<200
Antimony	6.0	1.3	0.0	<6.0	-0.60	<6.0	0.0	<6.0	-0.50	<6.0
Arsenic	10	1.6	0.50	<10	0.20	<10	0.40	<10	0.80	<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	23.6	<1000	12.5	<1000	16.3	<1000	3.9	<1000
Chromium	10	1.8	1.0	<10	0.40	<10	0.60	<10	0.40	<10
Cobalt	50	.5								
Copper	25	1								
Iron	300	29	19.6	<300	13.0	<300	23.0	<300	5.8	<300
Lead	5.0	1.1	anr							
Magnesium	5000	74	24.9	<5000	7.5	<5000	12.8	<5000	5.4	<5000
Manganese	15	.7	anr							
Molybdenum	50	.6								
Nickel	40	.5	anr							
Potassium	10000	200	130	<10000	145	<10000	101	<10000	76.1	<10000
Selenium	10	2	1.0	<10	0.50	<10	1.0	<10	0.80	<10
Silver	10	.5	anr							
Sodium	10000	500	119	<10000	217	<10000	95.6	<10000	85.9	<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: FA1765
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB021913M1.ICP Date Analyzed: 02/19/13 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA10544 Units: ug/l

Time:			15:08		15:57		16:09	
Sample ID:			CCB8		CCB9		CCB10	
Metal	RL	IDL	raw	final	raw	final	raw	final
Aluminum	200	15	-5.3	<200	-3.2	<200	2.8	<200
Antimony	6.0	1.3	0.30	<6.0	0.30	<6.0	0.40	<6.0
Arsenic	10	1.6	0.10	<10	0.30	<10	0.90	<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
Calcium	1000	50	4.0	<1000	8.5	<1000	11.5	<1000
Chromium	10	1.8	0.40	<10	0.50	<10	0.60	<10
Cobalt	50	.5						
Copper	25	1						
Iron	300	29	3.2	<300	7.2	<300	10.7	<300
Lead	5.0	1.1	anr					
Magnesium	5000	74	3.3	<5000	9.2	<5000	13.2	<5000
Manganese	15	.7	anr					
Molybdenum	50	.6						
Nickel	40	.5	anr					
Potassium	10000	200	69.1	<10000	21.6	<10000	39.9	<10000
Selenium	10	2	0.0	<10	0.30	<10	-1.2	<10
Silver	10	.5	anr					
Sodium	10000	500	75.8	<10000	64.9	<10000	63.9	<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: FA1765
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB021913M1.ICP Date Analyzed: 02/19/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA10544 Units: ug/l

Time:		08:28			09:08			10:02	
Sample ID:	ICV	ICV1		CCV	CCV1		CCV	CCV2	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	41500	103.8	40000	40400	101.0	40000	40000	100.0
Antimony	2000	2020	101.0	2000	1950	97.5	2000	1960	98.0
Arsenic	2000	1990	99.5	2000	1940	97.0	2000	1960	98.0
Barium	anr								
Beryllium	anr								
Cadmium	2000	2050	102.5	2000	2000	100.0	2000	2000	100.0
Calcium	40000	43200	108.0	40000	40300	100.8	40000	39900	99.8
Chromium	2000	2070	103.5	2000	2040	102.0	2000	1990	99.5
Cobalt									
Copper									
Iron	40000	42800	107.0	40000	41100	102.8	40000	40000	100.0
Lead	anr								
Magnesium	40000	42100	105.3	40000	39700	99.3	40000	39200	98.0
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium	40000	42200	105.5	40000	39400	98.5	40000	39600	99.0
Selenium	2000	2060	103.0	2000	1950	97.5	2000	1970	98.5
Silver	anr								
Sodium	40000	38900	97.3	40000	40700	101.8	40000	40300	100.8
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: FA1765
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB021913M1.ICP Date Analyzed: 02/19/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA10544 Units: ug/l

Time:		10:53			11:44			12:34	
Sample ID:	CCV	CCV3		CCV	CCV4		CCV	CCV5	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	40800	102.0	40000	41000	102.5	40000	40200	100.5
Antimony	2000	2040	102.0	2000	2010	100.5	2000	2110	105.5
Arsenic	2000	2040	102.0	2000	2010	100.5	2000	2080	104.0
Barium	anr								
Beryllium	anr								
Cadmium	2000	2060	103.0	2000	2050	102.5	2000	2040	102.0
Calcium	40000	40300	100.8	40000	40500	101.3	40000	39500	98.8
Chromium	2000	2050	102.5	2000	2070	103.5	2000	2010	100.5
Cobalt									
Copper									
Iron	40000	39900	99.8	40000	40600	101.5	40000	38200	95.5
Lead	anr								
Magnesium	40000	39400	98.5	40000	39300	98.3	40000	39200	98.0
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium	40000	42100	105.3	40000	41700	104.3	40000	42600	106.5
Selenium	2000	2050	102.5	2000	2020	101.0	2000	2100	105.0
Silver	anr								
Sodium	40000	41600	104.0	40000	42100	105.3	40000	41200	103.0
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: FA1765
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB021913M1.ICP Date Analyzed: 02/19/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA10544 Units: ug/l

Time:		13:24			14:14			15:04	
Sample ID:	CCV	CCV6		CCV	CCV7		CCV	CCV8	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	39300	98.3	40000	40000	100.0	40000	40100	100.3
Antimony	2000	2060	103.0	2000	2070	103.5	2000	2150	107.5
Arsenic	2000	2040	102.0	2000	2060	103.0	2000	2120	106.0
Barium	anr								
Beryllium	anr								
Cadmium	2000	2010	100.5	2000	2030	101.5	2000	2040	102.0
Calcium	40000	38600	96.5	40000	39200	98.0	40000	39300	98.3
Chromium	2000	1960	98.0	2000	2010	100.5	2000	1980	99.0
Cobalt									
Copper									
Iron	40000	37200	93.0	40000	37900	94.8	40000	37500	93.8
Lead	anr								
Magnesium	40000	38500	96.3	40000	38900	97.3	40000	39400	98.5
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium	40000	42100	105.3	40000	42800	107.0	40000	43500	108.8
Selenium	2000	2050	102.5	2000	2070	103.5	2000	2140	107.0
Silver	anr								
Sodium	40000	40400	101.0	40000	41200	103.0	40000	41200	103.0
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: FA1765
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB021913M1.ICP Date Analyzed: 02/19/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA10544 Units: ug/l

Time:		15:53			16:05	
Sample ID:	CCV	CCV9		CCV	CCV10	
Metal	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	39800	99.5	40000	38800	97.0
Antimony	2000	2190	109.5	2000	2100	105.0
Arsenic	2000	2150	107.5	2000	2050	102.5
Barium	anr					
Beryllium	anr					
Cadmium	2000	2050	102.5	2000	1990	99.5
Calcium	40000	38900	97.3	40000	37900	94.8
Chromium	2000	1980	99.0	2000	1960	98.0
Cobalt						
Copper						
Iron	40000	36800	92.0	40000	36200	90.5
Lead	anr					
Magnesium	40000	39400	98.5	40000	38400	96.0
Manganese	anr					
Molybdenum						
Nickel	anr					
Potassium	40000	43800	109.5	40000	42400	106.0
Selenium	2000	2170	108.5	2000	2080	104.0
Silver	anr					
Sodium	40000	41000	102.5	40000	40100	100.3
Strontium						
Thallium	anr					
Tin						
Titanium						
Vanadium						
Zinc	anr					

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

HIGH STANDARD CHECK SUMMARY

Login Number: FA1765
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB021913M1.ICP Date Analyzed: 02/19/13 Methods: SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA10544 Units: ug/l

Time:		08:20	
Sample ID:	HSTD	HSTD1	
Metal	True	Results	% Rec
Aluminum	80000	79500	99.4
Antimony	4000	3980	99.5
Arsenic	4000	3990	99.8
Barium	anr		
Beryllium	anr		
Cadmium	4000	3960	99.0
Calcium	80000	79300	99.1
Chromium	4000	3960	99.0
Cobalt			
Copper			
Iron	80000	79400	99.3
Lead	anr		
Magnesium	80000	79300	99.1
Manganese	anr		
Molybdenum			
Nickel	anr		
Potassium	80000	80400	100.5
Selenium	4000	3980	99.5
Silver	anr		
Sodium	80000	79700	99.6
Strontium			
Thallium	anr		
Tin			
Titanium			
Vanadium			
Zinc	anr		

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

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: FA1765
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB021913M1.ICP Date Analyzed: 02/19/13 Methods: SW846 6010C
QC Limits: CRI 70-130% CRIA 70-130% Run ID: MA10544 Units: ug/l

Time:			08:42		15:44	
Sample ID:	CRI	CRIA	CRIA1		CRIA2	
Metal	True	True	Results	% Rec	Results	% Rec
Aluminum	400	200	205	102.5	193	96.5
Antimony	10	5.0	5.0	100.0	5.1	102.0
Arsenic	20	10	10.4	104.0	11.2	112.0
Barium	400	200	anr			
Beryllium	10	5.0	anr			
Cadmium	10	5.0	5.3	106.0	5.1	102.0
Calcium	2000	1000	1060	106.0	982	98.2
Chromium	20	10	11.0	110.0	10.1	101.0
Cobalt	100	50				
Copper	50	25				
Iron	600	300	332	110.7	284	94.7
Lead	10	5.0	anr			
Magnesium	10000	5000	5170	103.4	4990	99.8
Manganese	30	15	anr			
Molybdenum	100	50				
Nickel	80	40	anr			
Potassium	20000	10000	9770	97.7	10800	108.0
Selenium	20	10	12.0	120.0	10.9	109.0
Silver	20	10	anr			
Sodium	20000	10000	10400	104.0	10200	102.0
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

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

Login Number: FA1765
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB021913M1.ICP Date Analyzed: 02/19/13 Methods: SW846 6010C
QC Limits: 80 to 120 % Recovery Run ID: MA10544 Units: ug/l

Time:			08:52		09:00		15:49		16:01	
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	489000	97.8	489000	97.8
Antimony		1000	0.0		1000	100.0	0.30		1090	109.0
Arsenic		1000	1.8		1010	101.0	0.80		1070	107.0
Barium		500	-0.50		487	97.4	0.30		499	99.8
Beryllium		500	-0.10		475	95.0	-0.10		415	83.0
Cadmium		1000	-0.10		884	88.4	0.50		873	87.3
Calcium	500000	500000	488000	97.6	479000	95.8	451000	90.2	447000	89.4
Chromium		500	0.10		456	91.2	0.10		438	87.6
Cobalt		500	0.30		434	86.8	0.20		432	86.4
Copper		500	0.0		483	96.6	-2.3		508	101.6
Iron	200000	200000	190000	95.0	187000	93.5	169000	84.5	161000	80.5
Lead		1000	0.20		884	88.4	1.9		809	80.9
Magnesium	500000	500000	483000	96.6	476000	95.2	453000	90.6	462000	92.4
Manganese		500	0.0		462	92.4	-0.40		481	96.2
Molybdenum		1000	0.0		992	99.2	-0.10		938	93.8
Nickel		1000	0.0		853	85.3	-0.70		923	92.3
Potassium			38.4		40.1		104		96.9	
Selenium		1000	0.0		983	98.3	-0.60		1040	104.0
Silver		1000	-0.80		923	92.3	-0.20		946	94.6
Sodium			100		130		273		216	
Strontium		1000	4.0		1090	109.0	3.9		1010	101.0
Thallium		1000	0.0		968	96.8	1.2		860	86.0
Tin		1000	-1.1		914	91.4	-0.80		944	94.4
Titanium		1000	-5.9		1070	107.0	-5.8		973	97.3
Vanadium		500	-0.50		468	93.6	-0.10		470	94.0
Zinc		1000	-1.2		886	88.6	-0.10		862	86.2

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

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA1765
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA022013M1.ICP Date Analyzed: 02/20/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10550
Parameters: As,Ba,Cd,Cr,Pb,Se,Ag

Time	Sample Description	Dilution Factor	PS Recov	Comments
07:56	MA10550-STD1	1		STDA
08:01	MA10550-STD2	1		STDB
08:05	MA10550-STD3	1		STDC
08:09	MA10550-STD4	1		STDD
08:14	MA10550-HSTD1	1		
08:20	MA10550-ICV1	1		
08:27	MA10550-ICB1	1		
08:32	MA10550-CRIA1	1		
08:40	MA10550-ICSA1	1		
08:51	MA10550-ICSAB1	1		
08:57	MA10550-CCV1	1		
09:05	MA10550-CCB1	1		
09:09	MP24640-MB1	1		
09:14	MP24640-B1	1		
09:18	FA1848-1	1		(sample used for QC only; not part of login FA1765)
09:23	MP24640-D1	1		
09:27	MP24640-SD1	5		
09:32	MP24640-PS1	1		
09:36	MP24640-S1	1		
09:41	MP24640-S2	1		
09:46	ZZZZZZ	1		
09:50	ZZZZZZ	1		
09:55	MA10550-CCV2	1		
09:59	MA10550-CCB2	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		
10:35	MP24641-MB1	1		
10:39	MP24641-B1	1		
10:44	FA1850-1	1		(sample used for QC only; not part of login FA1765)

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA1765
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA022013M1.ICP Date Analyzed: 02/20/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10550
Parameters: As,Ba,Cd,Cr,Pb,Se,Ag

	Time	Sample Description	Dilution Factor	PS Recov	Comments
	10:48	MA10550-CCV3	1		
	10:53	MA10550-CCB3	1		
	10:57	MP24641-D1	1		
	11:02	MP24641-SD1	5		
	11:06	MP24641-PS1	1		
	11:11	MP24641-S1	1		
	11:15	MP24641-S2	1		
	11:20	ZZZZZZ	1		
	11:24	ZZZZZZ	1		
	11:29	ZZZZZZ	1		
	11:34	ZZZZZZ	1		
	11:38	MA10550-CCV4	1		
	11:42	MA10550-CCB4	1		
	11:57	MP24642-MB1	1		
	12:01	MP24642-B1	1		
	12:05	FA1765-2L	1		
	12:10	MP24642-D1	1		
	12:14	MP24642-SD1	5		
	12:19	MP24642-S1	1		
	12:23	MP24642-S2	1		
	12:28	FA1765-3L	1		
	12:32	ZZZZZZ	1		
	12:37	ZZZZZZ	1		
	12:41	MA10550-CCV5	1		
	12:46	MA10550-CCB5	1		
	12:50	ZZZZZZ	1		
	12:55	ZZZZZZ	1		
	12:59	ZZZZZZ	1		
	13:03	MP24642-MB2	1		
	13:08	MP24642-B2	1		
---------->	Last reportable sample/prep for job FA1765				
	13:12	ZZZZZZ	2		
	13:35	MA10550-CCV6	1		
	13:39	MA10550-CCB6	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA1765
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA022013M1.ICP Date Analyzed: 02/20/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10550
Parameters: As,Ba,Cd,Cr,Pb,Se,Ag

Time	Sample Description	Dilution Factor	PS Recov	Comments
13:50	MP24647-MB1	1		
13:55	MP24647-B1	1		
13:59	FA1885-1	1		(sample used for QC only; not part of login FA1765)
14:04	MP24647-D1	1		
14:08	MP24647-SD1	5		
14:13	MP24647-PS1	1		
14:17	MP24647-S1	1		
14:22	MP24647-S2	1		
14:26	ZZZZZZ	1		
14:31	MA10550-CCV7	1		
14:35	MA10550-CCB7	1		
14:40	ZZZZZZ	1		
14:44	MA10550-CRIA2	1		
14:49	MA10550-ICSA2	1		
14:53	MA10550-ICSAB2	1		
14:58	MA10550-CCV8	1		
15:02	MA10550-CCB8	1		

----------> Last reportable CCB for job FA1765
Refer to raw data for calibration curve and standards.

INTERNAL STANDARD SUMMARY

Login Number: FA1765
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA022013M1.ICP Date Analyzed: 02/20/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10550
Parameters: As,Ba,Cd,Cr,Pb,Se,Ag

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
07:56	MA10550-STD1	1740	15257	9135	1031
08:01	MA10550-STD2	1707	14942	8923	976
08:05	MA10550-STD3	1653	14740	8904	899
08:09	MA10550-STD4	1579	14529	8816	827
08:14	MA10550-HSTD1	1579	14707	8809	824
08:20	MA10550-ICV1	1644	14658	8785	894
08:27	MA10550-ICB1	1722 R	15151 R	9173 R	1027 R
08:32	MA10550-CRIA1	1702	15070	9136	994
08:40	MA10550-ICSA1	1526	13578	8300	769
08:51	MA10550-ICSAB1	1509	13470	8237	755
08:57	MA10550-CCV1	1633	14594	8877	873
09:05	MA10550-CCB1	1716	14876	9021	1009
09:09	MP24640-MB1	1731	14883	9054	1020
09:14	MP24640-B1	1702	14818	8968	943
09:18	FA1848-1	1932	17183	10063	957
09:23	MP24640-D1	1913	17123	10026	958
09:27	MP24640-SD1	1802	15864	9364	1005
09:32	MP24640-PS1	1903	16842	9923	943
09:36	MP24640-S1	1863	16669	9859	910
09:41	MP24640-S2	1880	17045	10012	908
09:46	ZZZZZZ	1942	17232	10088	964
09:50	ZZZZZZ	1928	16887	9928	934
09:55	MA10550-CCV2	1670	14816	8890	901
09:59	MA10550-CCB2	1725	15242	9157	1024
10:04	ZZZZZZ	1773	16188	9613	801
10:08	ZZZZZZ	1960	17159	9992	953
10:13	ZZZZZZ	1772	15607	9232	1032
10:17	ZZZZZZ	1852	16365	9681	1023
10:22	ZZZZZZ	2084	18886	11155	922
10:26	ZZZZZZ	2080	18822	11073	926
10:35	MP24641-MB1	1721	15351	9221	1025
10:39	MP24641-B1	1659	15015	9019	918
10:44	FA1850-1	1557	14350	8774	853

INTERNAL STANDARD SUMMARY

Login Number: FA1765
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA022013M1.ICP Date Analyzed: 02/20/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10550
Parameters: As,Ba,Cd,Cr,Pb,Se,Ag

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
10:48	MA10550-CCV3	1658	14725	8684	892
10:53	MA10550-CCB3	1717	15085	9011	1018
10:57	MP24641-D1	1544	14058	8694	850
11:02	MP24641-SD1	1619	14883	9035	929
11:06	MP24641-PS1	1554	14010	8612	851
11:11	MP24641-S1	1547	13969	8539	828
11:15	MP24641-S2	1551	14063	8638	829
11:20	ZZZZZZ	1494	14183	8804	890
11:24	ZZZZZZ	1494	13915	8600	852
11:29	ZZZZZZ	1530	13841	8536	853
11:34	ZZZZZZ	1507	14173	8851	939
11:38	MA10550-CCV4	1581	14510	8841	873
11:42	MA10550-CCB4	1672	15170	9252	1000
11:57	MP24642-MB1	1693	14887	9112	1019
12:01	MP24642-B1	1622	14627	8881	914
12:05	FA1765-2L	1601	14704	9006	926
12:10	MP24642-D1	1607	14423	8815	929
12:14	MP24642-SD1	1660	14516	8871	992
12:19	MP24642-S1	1573	14175	8699	872
12:23	MP24642-S2	1577	14346	8818	871
12:28	FA1765-3L	1613	14608	8996	938
12:32	ZZZZZZ	1620	14394	8834	936
12:37	ZZZZZZ	1596	14181	8746	942
12:41	MA10550-CCV5	1614	14276	8747	887
12:46	MA10550-CCB5	1685	14733	9075	1015
12:50	ZZZZZZ	1635	14412	8785	897
12:55	ZZZZZZ	1622	14170	8748	874
12:59	ZZZZZZ	1649	14436	8783	874
13:03	MP24642-MB2	1663	14590	9118	1015
13:08	MP24642-B2	1631	14364	8918	930
13:12	ZZZZZZ	1687	14517	9105	864
13:35	MA10550-CCV6	1607	14148	8869	888
13:39	MA10550-CCB6	1683	14466	9065	1022

INTERNAL STANDARD SUMMARY

Login Number: FA1765
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA022013M1.ICP Date Analyzed: 02/20/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10550
Parameters: As,Ba,Cd,Cr,Pb,Se,Ag

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
13:50	MP24647-MB1	1620	13996	8899	1005
13:55	MP24647-B1	1610	14002	8800	915
13:59	FA1885-1	1783	15362	9623	960
14:04	MP24647-D1	1784	15363	9722	956
14:08	MP24647-SD1	1717	14794	9326	1009
14:13	MP24647-PS1	1785	15370	9659	940
14:17	MP24647-S1	1749	15010	9487	892
14:22	MP24647-S2	1754	15261	9626	890
14:26	ZZZZZZ	1597	14292	9172	971
14:31	MA10550-CCV7	1628	14126	8845	902
14:35	MA10550-CCB7	1691	14402	9055	1033
14:40	ZZZZZZ	1600	14001	8926	940
14:44	MA10550-CRIA2	1697	14642	9184	1009
14:49	MA10550-ICSA2	1517	13062	8302	785
14:53	MA10550-ICSAB2	1502	13021	8356	775
14:58	MA10550-CCV8	1633	14294	8994	903
15:02	MA10550-CCB8	1705	14657	9227	1039

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: FA1765
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA022013M1.ICP Date Analyzed: 02/20/13 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA10550 Units: ug/l

Time:			08:27		09:05		09:59		10:53	
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	0.0	<10	0.0	<10	-1.0	<10	-1.0	<10
Barium	200	1	0.0	<200	0.30	<200	0.20	<200	0.30	<200
Beryllium	4.0	.5	anr							
Cadmium	5.0	.5	0.0	<5.0	0.20	<5.0	0.20	<5.0	0.10	<5.0
Calcium	1000	50	anr							
Chromium	10	1.8	0.20	<10	0.10	<10	0.30	<10	0.20	<10
Cobalt	50	.5	anr							
Copper	25	1	anr							
Iron	300	29	anr							
Lead	5.0	1.1	0.0	<5.0	0.30	<5.0	0.50	<5.0	-0.60	<5.0
Magnesium	5000	74	anr							
Manganese	15	.7	anr							
Molybdenum	50	.6								
Nickel	40	.5	anr							
Potassium	10000	200	anr							
Selenium	10	2	-1.0	<10	-0.80	<10	-2.9	<10	-1.1	<10
Silver	10	.5	0.30	<10	0.0	<10	0.30	<10	0.30	<10
Sodium	10000	500	anr							
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: FA1765
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA022013M1.ICP Date Analyzed: 02/20/13 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA10550 Units: ug/l

Time:			11:42		12:46		13:39		14:35	
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	-0.90	<10	-0.70	<10	-0.90	<10	-0.50	<10
Barium	200	1	0.30	<200	0.20	<200	0.20	<200	0.20	<200
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	anr							
Chromium	10	1.8	0.0	<10	0.20	<10	0.50	<10	0.0	<10
Cobalt	50	.5	anr							
Copper	25	1	anr							
Iron	300	29	anr							
Lead	5.0	1.1	0.30	<5.0	0.70	<5.0	-0.10	<5.0	0.50	<5.0
Magnesium	5000	74	anr							
Manganese	15	.7	anr							
Molybdenum	50	.6								
Nickel	40	.5	anr							
Potassium	10000	200	anr							
Selenium	10	2	0.0	<10	-1.1	<10	0.30	<10	-1.5	<10
Silver	10	.5	0.50	<10	0.40	<10	0.30	<10	0.0	<10
Sodium	10000	500	anr							
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: FA1765
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA022013M1.ICP Date Analyzed: 02/20/13 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA10550 Units: ug/l

Time:			15:02	
Sample ID:			CCB8	
Metal	RL	IDL	raw	final
Aluminum	200	15	anr	
Antimony	6.0	1.3	anr	
Arsenic	10	1.6	-0.10	<10
Barium	200	1	0.40	<200
Beryllium	4.0	.5	anr	
Cadmium	5.0	.5	0.0	<5.0
Calcium	1000	50	anr	
Chromium	10	1.8	0.30	<10
Cobalt	50	.5	anr	
Copper	25	1	anr	
Iron	300	29	anr	
Lead	5.0	1.1	0.30	<5.0
Magnesium	5000	74	anr	
Manganese	15	.7	anr	
Molybdenum	50	.6		
Nickel	40	.5	anr	
Potassium	10000	200	anr	
Selenium	10	2	-0.10	<10
Silver	10	.5	0.10	<10
Sodium	10000	500	anr	
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: FA1765
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA022013M1.ICP Date Analyzed: 02/20/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA10550 Units: ug/l

Time:		08:20			08:57			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	2000	2020	101.0	2000	1980	99.0	2000	1980	99.0
Barium	2000	2130	106.5	2000	2020	101.0	2000	2030	101.5
Beryllium	anr								
Cadmium	2000	2070	103.5	2000	2020	101.0	2000	2030	101.5
Calcium	anr								
Chromium	2000	2120	106.0	2000	2020	101.0	2000	2070	103.5
Cobalt	anr								
Copper	anr								
Iron	anr								
Lead	2000	2030	101.5	2000	2020	101.0	2000	2010	100.5
Magnesium	anr								
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium	anr								
Selenium	2000	2080	104.0	2000	1990	99.5	2000	1980	99.0
Silver	250	248	99.2	250	251	100.4	250	252	100.8
Sodium	anr								
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: FA1765
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA022013M1.ICP Date Analyzed: 02/20/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA10550 Units: ug/l

Time:		10:48			11:38			12:41	
Sample ID:	CCV	CCV3		CCV	CCV4		CCV	CCV5	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	anr								
Arsenic	2000	1970	98.5	2000	2040	102.0	2000	2040	102.0
Barium	2000	2050	102.5	2000	2070	103.5	2000	2050	102.5
Beryllium	anr								
Cadmium	2000	2020	101.0	2000	2040	102.0	2000	2070	103.5
Calcium	anr								
Chromium	2000	2050	102.5	2000	2030	101.5	2000	2130	106.5
Cobalt	anr								
Copper	anr								
Iron	anr								
Lead	2000	2010	100.5	2000	2000	100.0	2000	2010	100.5
Magnesium	anr								
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium	anr								
Selenium	2000	1970	98.5	2000	2070	103.5	2000	2060	103.0
Silver	250	252	100.8	250	255	102.0	250	255	102.0
Sodium	anr								
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: FA1765
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA022013M1.ICP Date Analyzed: 02/20/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA10550 Units: ug/l

Time:		13:35			14:31			14:58	
Sample ID:	CCV	CCV6		CCV	CCV7		CCV	CCV8	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	anr								
Arsenic	2000	2050	102.5	2000	2030	101.5	2000	2030	101.5
Barium	2000	2000	100.0	2000	1990	99.5	2000	1970	98.5
Beryllium	anr								
Cadmium	2000	2090	104.5	2000	2080	104.0	2000	2080	104.0
Calcium	anr								
Chromium	2000	2160	108.0	2000	2200	110.0	2000	2180	109.0
Cobalt	anr								
Copper	anr								
Iron	anr								
Lead	2000	2010	100.5	2000	2000	100.0	2000	2000	100.0
Magnesium	anr								
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium	anr								
Selenium	2000	2070	103.5	2000	2070	103.5	2000	2070	103.5
Silver	250	252	100.8	250	257	102.8	250	254	101.6
Sodium	anr								
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium	anr								
Zinc	anr								

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

HIGH STANDARD CHECK SUMMARY

Login Number: FA1765
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA022013M1.ICP Date Analyzed: 02/20/13 Methods: SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA10550 Units: ug/l

Time:		08:14	
Sample ID:	HSTD	HSTD1	
Metal	True	Results	% Rec
Aluminum	anr		
Antimony	anr		
Arsenic	4000	4040	101.0
Barium	4000	3990	99.8
Beryllium	anr		
Cadmium	4000	3980	99.5
Calcium	anr		
Chromium	4000	3910	97.8
Cobalt	anr		
Copper	anr		
Iron	anr		
Lead	4000	4060	101.5
Magnesium	anr		
Manganese	anr		
Molybdenum			
Nickel	anr		
Potassium	anr		
Selenium	4000	4030	100.8
Silver	500	502	100.4
Sodium	anr		
Strontium			
Thallium	anr		
Tin			
Titanium			
Vanadium	anr		
Zinc	anr		

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

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: FA1765
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA022013M1.ICP Date Analyzed: 02/20/13 Methods: SW846 6010C
QC Limits: CRI 70-130% CRIA 70-130% Run ID: MA10550 Units: ug/l

Time:			08:32		14:44	
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	9.3	93.0	9.6	96.0
Barium	400	200	204	102.0	198	99.0
Beryllium	10	5.0	anr			
Cadmium	10	5.0	5.2	104.0	5.3	106.0
Calcium	2000	1000	anr			
Chromium	20	10	10.5	105.0	11.1	111.0
Cobalt	100	50	anr			
Copper	50	25	anr			
Iron	600	300	anr			
Lead	10	5.0	4.6	92.0	5.7	114.0
Magnesium	10000	5000	anr			
Manganese	30	15	anr			
Molybdenum	100	50				
Nickel	80	40	anr			
Potassium	20000	10000	anr			
Selenium	20	10	8.9	89.0	9.2	92.0
Silver	20	10	8.7	87.0	8.8	88.0
Sodium	20000	10000	anr			
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: FA1765
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA022013M1.ICP Date Analyzed: 02/20/13 Methods: SW846 6010C
QC Limits: 80 to 120 % Recovery Run ID: MA10550 Units: ug/l

Time:			08:40		08:51		14:49		14:53	
Sample ID:	ICSA	ICSAB	ICSA1		ICSAB1		ICSA2		ICSAB2	
Metal	True	True	Results	% Rec	Results	% Rec	Results	% Rec	Results	% Rec
Aluminum	500000	500000	519000	103.8	525000	105.0	502000	100.4	499000	99.8
Antimony		1000	0.0		1020	102.0	-0.30		1040	104.0
Arsenic		1000	0.40		1000	100.0	1.6		1040	104.0
Barium		500	-0.20		499	99.8	-0.60		481	96.2
Beryllium		500	-0.10		481	96.2	-0.10		479	95.8
Cadmium		1000	0.0		847	84.7	-2.3		880	88.0
Calcium	500000	500000	498000	99.6	494000	98.8	508000	101.6	500000	100.0
Chromium		500	0.0		441	88.2	-0.10		482	96.4
Cobalt		500	-0.60		425	85.0	-0.30		421	84.2
Copper		500	1.0		519	103.8	-0.60		525	105.0
Iron	200000	200000	185000	92.5	184000	92.0	190000	95.0	187000	93.5
Lead		1000	0.0		866	86.6	-3.0		868	86.8
Magnesium	500000	500000	524000	104.8	526000	105.2	526000	105.2	519000	103.8
Manganese		500	0.10		459	91.8	-0.70		488	97.6
Molybdenum		1000	0.20		968	96.8	0.70		945	94.5
Nickel		1000	0.0		836	83.6	-0.60		854	85.4
Potassium			-7.4		-23		34.8		37.1	
Selenium		1000	0.0		973	97.3	0.10		1010	101.0
Silver		1000	0.10		976	97.6	0.10		980	98.0
Sodium			76.3		80.9		90.5		90.6	
Strontium		1000	4.2		1100	110.0	4.0		1070	107.0
Thallium		1000	0.0		932	93.2	-0.80		933	93.3
Tin		1000	0.40		902	90.2	-0.10		909	90.9
Titanium		1000	-1.6		1050	105.0	-1.8		1100	110.0
Vanadium		500	-0.60		475	95.0	0.30		501	100.2
Zinc		1000	0.0		857	85.7	0.20		883	88.3

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

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA1765
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB022013M1.ICP Date Analyzed: 02/20/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10551
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
07:57	MA10551-STD1	1		STDA
08:01	MA10551-STD2	1		STDB
08:05	MA10551-STD3	1		STDC
08:09	MA10551-STD4	1		STDD
08:15	MA10551-HSTD1	1		
08:21	MA10551-ICV1	1		
08:29	MA10551-ICB1	1		
08:32	MA10551-CRIA1	1		
08:40	MA10551-ICSA1	1		
08:46	MA10551-ICSAB1	1		
08:53	MA10551-CCV1	1		
08:59	MA10551-CCB1	1		
09:05	MP24639-MB1	1		
09:09	MP24639-B1	1		
09:13	FA1837-1	1		(sample used for QC only; not part of login FA1765)
09:17	MP24639-D1	1		
09:21	MP24639-SD1	5		
09:25	MP24639-PS1	1		
09:29	MP24639-S1	1		
09:33	MP24639-S2	1		
09:37	ZZZZZZ	1		
09:41	ZZZZZZ	1		
09:45	MA10551-CCV2	1		
09:49	MA10551-CCB2	1		
09:53	ZZZZZZ	1		
09:57	ZZZZZZ	1		
10:01	ZZZZZZ	1		
10:06	ZZZZZZ	1		
10:10	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: FA1765
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB022013M1.ICP Date Analyzed: 02/20/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10551
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
10:31	ZZZZZZ	1		
10:35	MA10551-CCV3	1		
10:39	MA10551-CCB3	1		
10:43	ZZZZZZ	1		
10:47	FA1781-1	2		(sample used for QC only; not part of login FA1765)
10:52	MP24632-D1	2		
10:56	MP24632-S1	2		
11:00	MP24632-S2	2		
11:04	MP24632-PS1	2		
11:08	MP24632-SD1	10		
11:13	ZZZZZZ	2		
11:17	ZZZZZZ	25		
11:21	ZZZZZZ	25		
11:25	MA10551-CCV4	1		
11:29	MA10551-CCB4	1		
11:33	FA1765-1F	10		
11:38	FA1765-2F	10		
11:42	FA1765-3F	10		
---------->	Last reportable sample/prep for job FA1765			
11:46	ZZZZZZ	2		
12:03	MA10551-CRIA2	1		
12:07	MA10551-ICSA2	1		
12:11	MA10551-ICSAB2	1		
12:15	MA10551-CCV5	1		
12:19	MA10551-CCB5	1		
---------->	Last reportable CCB for job FA1765			
12:23	MA10551-CCV6	1		
12:27	MA10551-CCB6	1		

Refer to raw data for calibration curve and standards.

INTERNAL STANDARD SUMMARY

Login Number: FA1765
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB022013M1.ICP Date Analyzed: 02/20/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10551
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	MA10551-STD1	7494	38330	7547	3239
08:01	MA10551-STD2	7472	37843	7567	2986
08:05	MA10551-STD3	7133	35949	7474	2661
08:09	MA10551-STD4	6888	34912	7453	2433
08:15	MA10551-HSTD1	6920	35275	7458	2432
08:21	MA10551-ICV1	7175	36256	7428	2629
08:29	MA10551-ICB1	7571 R	38209 R	7555 R	3246 R
08:32	MA10551-CRIA1	7445	37516	7561	3054
08:40	MA10551-ICSA1	6524	32153	7164	2320
08:46	MA10551-ICSAB1	6602	32550	7192	2307
08:53	MA10551-CCV1	7189	35986	7494	2655
08:59	MA10551-CCB1	7617	38454	7590	3243
09:05	MP24639-MB1	7724	39104	7763	3269
09:09	MP24639-B1	7423	37053	7574	2831
09:13	FA1837-1	7319	36835	7636	2912
09:17	MP24639-D1	7310	36788	7646	2924
09:21	MP24639-SD1	7532	37853	7625	3116
09:25	MP24639-PS1	7280	36773	7640	2859
09:29	MP24639-S1	7335	36384	7585	2716
09:33	MP24639-S2	7344	36177	7639	2726
09:37	ZZZZZZ	7303	36650	7680	2921
09:41	ZZZZZZ	7578	37748	7649	3106
09:45	MA10551-CCV2	7222	35901	7425	2653
09:49	MA10551-CCB2	7621	38161	7477	3206
09:53	ZZZZZZ	7595	37925	7673	3089
09:57	ZZZZZZ	7377	37035	7629	2999
10:01	ZZZZZZ	7336	36737	7581	2900
10:06	ZZZZZZ	7570	37714	7805	2964
10:10	ZZZZZZ	7610	38181	7608	3121
10:14	ZZZZZZ	7586	37567	7606	3105
10:18	ZZZZZZ	7365	36261	8239	2344
10:22	ZZZZZZ	6408	32286	7256	2389
10:27	ZZZZZZ	6587	33720	7338	2434

INTERNAL STANDARD SUMMARY

Login Number: FA1765
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB022013M1.ICP Date Analyzed: 02/20/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10551
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	7040	35633	7414	2734
10:35	MA10551-CCV3	7164	35423	7377	2644
10:39	MA10551-CCB3	7569	37767	7524	3231
10:43	ZZZZZZ	6839	34621	7373	2630
10:47	FA1781-1	9300	45309	9338	2846
10:52	MP24632-D1	9265	45057	9406	2858
10:56	MP24632-S1	9061	44250	9382	2777
11:00	MP24632-S2	9114	44622	9362	2774
11:04	MP24632-PS1	9220	44973	9299	2838
11:08	MP24632-SD1	7946	39283	7748	3092
11:13	ZZZZZZ	9027	45092	9085	2990
11:17	ZZZZZZ	8557	42635	8570	3127
11:21	ZZZZZZ	8247	41399	8286	3121
11:25	MA10551-CCV4	7128	35474	7356	2638
11:29	MA10551-CCB4	7556	37789	7366	3223
11:33	FA1765-1F	7868	38490	8296	2563
11:38	FA1765-2F	7245	36240	7448	2952
11:42	FA1765-3F	7257	36405	7409	2942
11:46	ZZZZZZ	8540	42391	8576	2984
12:03	MA10551-CRIA2	7343	36884	7369	3057
12:07	MA10551-ICSA2	6484	31799	7044	2347
12:11	MA10551-ICSAB2	6506	32251	6996	2285
12:15	MA10551-CCV5	7107	35526	7224	2646
12:19	MA10551-CCB5	7439	37401	7342	3244
12:23	MA10551-CCV6	7050	35156	7295	2670
12:27	MA10551-CCB6	7452	37729	7366	3239

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: FA1765
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB022013M1.ICP Date Analyzed: 02/20/13 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA10551 Units: ug/l

Time:			08:29		08:59		09:49		10:39	
Sample ID:			ICB1		CCB1		CCB2		CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	15	-4.6	<200	-4.9	<200	2.8	<200	-9.8	<200
Antimony	6.0	1.3	-0.20	<6.0	1.2	<6.0	1.0	<6.0	0.0	<6.0
Arsenic	10	1.6	0.60	<10	0.60	<10	0.10	<10	0.20	<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	-3.1	<1000	1.7	<1000	-1.6	<1000	8.3	<1000
Chromium	10	1.8	-0.30	<10	-0.30	<10	-0.20	<10	-0.20	<10
Cobalt	50	.5								
Copper	25	1	anr							
Iron	300	29	-5.5	<300	0.50	<300	-1.3	<300	3.5	<300
Lead	5.0	1.1	anr							
Magnesium	5000	74	-1.6	<5000	-14	<5000	-12	<5000	-16	<5000
Manganese	15	.7	anr							
Molybdenum	50	.6								
Nickel	40	.5	anr							
Potassium	10000	200	30.3	<10000	-1.7	<10000	35.7	<10000	28.5	<10000
Selenium	10	2	0.30	<10	-1.1	<10	-0.80	<10	1.1	<10
Silver	10	.5	anr							
Sodium	10000	500	8.5	<10000	19.6	<10000	30.3	<10000	49.9	<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: FA1765
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB022013M1.ICP Date Analyzed: 02/20/13 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA10551 Units: ug/l

Time:			11:29		12:19	
Sample ID:			CCB4		CCB5	
Metal	RL	IDL	raw	final	raw	final
Aluminum	200	15	-2.5	<200	-2.6	<200
Antimony	6.0	1.3	-0.10	<6.0	0.20	<6.0
Arsenic	10	1.6	0.70	<10	0.0	<10
Barium	200	1	anr			
Beryllium	4.0	.5	anr			
Cadmium	5.0	.5	0.0	<5.0	0.10	<5.0
Calcium	1000	50	-0.90	<1000	7.7	<1000
Chromium	10	1.8	-0.20	<10	0.0	<10
Cobalt	50	.5				
Copper	25	1	anr			
Iron	300	29	-1.6	<300	4.6	<300
Lead	5.0	1.1	anr			
Magnesium	5000	74	-11	<5000	-11	<5000
Manganese	15	.7	anr			
Molybdenum	50	.6				
Nickel	40	.5	anr			
Potassium	10000	200	3.4	<10000	19.1	<10000
Selenium	10	2	0.40	<10	-0.10	<10
Silver	10	.5	anr			
Sodium	10000	500	37.8	<10000	26.3	<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

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA1765
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB022013M1.ICP Date Analyzed: 02/20/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA10551 Units: ug/l

Time:		08:21			08:53			09:45	
Sample ID:	ICV	ICV1		CCV	CCV1		CCV	CCV2	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	41100	102.8	40000	40200	100.5	40000	40400	101.0
Antimony	2000	1990	99.5	2000	1940	97.0	2000	1910	95.5
Arsenic	2000	1970	98.5	2000	1940	97.0	2000	1910	95.5
Barium	anr								
Beryllium	anr								
Cadmium	2000	2050	102.5	2000	1980	99.0	2000	1980	99.0
Calcium	40000	41700	104.3	40000	40300	100.8	40000	40400	101.0
Chromium	2000	2040	102.0	2000	2000	100.0	2000	2020	101.0
Cobalt									
Copper	anr								
Iron	40000	40000	100.0	40000	39400	98.5	40000	38700	96.8
Lead	anr								
Magnesium	40000	39300	98.3	40000	39600	99.0	40000	39500	98.8
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium	40000	40200	100.5	40000	39900	99.8	40000	39800	99.5
Selenium	2000	2020	101.0	2000	1940	97.0	2000	1910	95.5
Silver	anr								
Sodium	40000	41300	103.3	40000	40500	101.3	40000	40600	101.5
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: FA1765
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB022013M1.ICP Date Analyzed: 02/20/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA10551 Units: ug/l

Time:		10:35			11:25			12:15	
Sample ID:	CCV	CCV3		CCV	CCV4		CCV	CCV5	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	40500	101.3	40000	40500	101.3	40000	40200	100.5
Antimony	2000	1930	96.5	2000	1940	97.0	2000	1950	97.5
Arsenic	2000	1930	96.5	2000	1940	97.0	2000	1940	97.0
Barium	anr								
Beryllium	anr								
Cadmium	2000	1990	99.5	2000	1990	99.5	2000	1980	99.0
Calcium	40000	40300	100.8	40000	40200	100.5	40000	40000	100.0
Chromium	2000	2030	101.5	2000	2020	101.0	2000	2010	100.5
Cobalt									
Copper	anr								
Iron	40000	38300	95.8	40000	39000	97.5	40000	38800	97.0
Lead	anr								
Magnesium	40000	39200	98.0	40000	39500	98.8	40000	39300	98.3
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium	40000	40400	101.0	40000	40700	101.8	40000	40400	101.0
Selenium	2000	1940	97.0	2000	1940	97.0	2000	1950	97.5
Silver	anr								
Sodium	40000	41000	102.5	40000	40900	102.3	40000	40700	101.8
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium									
Zinc	anr								

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

HIGH STANDARD CHECK SUMMARY

Login Number: FA1765
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB022013M1.ICP Date Analyzed: 02/20/13 Methods: SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA10551 Units: ug/l

Time:		08:15	
Sample ID:	HSTD	HSTD1	
Metal	True	Results	% Rec
Aluminum	80000	79400	99.3
Antimony	4000	4000	100.0
Arsenic	4000	4010	100.3
Barium	anr		
Beryllium	anr		
Cadmium	4000	3960	99.0
Calcium	80000	79100	98.9
Chromium	4000	3970	99.3
Cobalt			
Copper	anr		
Iron	80000	79200	99.0
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	79100	98.9
Strontium			
Thallium	anr		
Tin			
Titanium			
Vanadium			
Zinc	anr		

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

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: FA1765
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB022013M1.ICP Date Analyzed: 02/20/13 Methods: SW846 6010C
QC Limits: CRI 70-130% CRIA 70-130% Run ID: MA10551 Units: ug/l

Time:			08:32		12:03	
Sample ID:	CRI	CRIA	CRIA1		CRIA2	
Metal	True	True	Results	% Rec	Results	% Rec
Aluminum	400	200	206	103.0	199	99.5
Antimony	10	5.0	5.9	118.0	5.5	110.0
Arsenic	20	10	10.5	105.0	9.8	98.0
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	1020	102.0
Chromium	20	10	9.8	98.0	9.9	99.0
Cobalt	100	50				
Copper	50	25	anr			
Iron	600	300	296	98.7	291	97.0
Lead	10	5.0	anr			
Magnesium	10000	5000	5040	100.8	5010	100.2
Manganese	30	15	anr			
Molybdenum	100	50				
Nickel	80	40	anr			
Potassium	20000	10000	9910	99.1	10300	103.0
Selenium	20	10	9.4	94.0	10.5	105.0
Silver	20	10	anr			
Sodium	20000	10000	10100	101.0	10300	103.0
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

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

Login Number: FA1765
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB022013M1.ICP Date Analyzed: 02/20/13 Methods: SW846 6010C
QC Limits: 80 to 120 % Recovery Run ID: MA10551 Units: ug/l

Time:			08:40		08:46		12:07		12:11	
Sample ID:	ICSA	ICSAB	ICSA1		ICSAB1		ICSA2		ICSAB2	
Metal	True	True	Results	% Rec	Results	% Rec	Results	% Rec	Results	% Rec
Aluminum	500000	500000	499000	99.8	506000	101.2	511000	102.2	501000	100.2
Antimony		1000	1.2		977	97.7	1.8		987	98.7
Arsenic		1000	0.0		984	98.4	0.10		993	99.3
Barium		500	-0.70		477	95.4	-0.60		482	96.4
Beryllium		500	-0.30		446	89.2	-0.40		448	89.6
Cadmium		1000	-0.80		867	86.7	-0.90		866	86.6
Calcium	500000	500000	481000	96.2	480000	96.0	480000	96.0	473000	94.6
Chromium		500	-0.20		450	90.0	-0.80		450	90.0
Cobalt		500	0.30		428	85.6	0.20		428	85.6
Copper		500	-0.60		478	95.6	-0.80		484	96.8
Iron	200000	200000	183000	91.5	176000	88.0	182000	91.0	177000	88.5
Lead		1000	0.10		870	87.0	-3.4		865	86.5
Magnesium	500000	500000	478000	95.6	472000	94.4	474000	94.8	468000	93.6
Manganese		500	-0.40		449	89.8	-0.50		453	90.6
Molybdenum		1000	0.10		929	92.9	-0.30		943	94.3
Nickel		1000	0.70		831	83.1	0.50		839	83.9
Potassium			176		100		149		50.5	
Selenium		1000	-1.2		955	95.5	-2.5		965	96.5
Silver		1000	-0.90		920	92.0	-0.40		928	92.8
Sodium			177		164		203		136	
Strontium		1000	4.6		1030	103.0	4.9		1050	105.0
Thallium		1000	0.40		962	96.2	1.0		956	95.6
Tin		1000	-0.70		897	89.7	-0.90		905	90.5
Titanium		1000	-2.9		1010	101.0	-3.1		1030	103.0
Vanadium		500	-0.40		474	94.8	0.0		477	95.4
Zinc		1000	-0.80		872	87.2	-1.2		871	87.1

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

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA1765
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: H40223W1.CSV Date Analyzed: 02/23/13 Methods: SW846 7470A
Analyst: JL Run ID: MA10560
Parameters: Hg

Time	Sample Description	Dilution Factor	PS Recov	Comments
13:38	MA10560-STD1	1		STD1
13:39	MA10560-STD2	1		STD2
13:41	MA10560-STD3	1		STD3
13:42	MA10560-STD4	1		STD4
13:44	MA10560-STD5	1		STD5
13:45	MA10560-STD6	1		STD6
13:47	MA10560-HSTD1	1		
13:49	MA10560-ICV1	1		
13:51	MA10560-ICB1	1		
13:53	MA10560-CRI1	1		
13:54	MA10560-CCV1	1		
13:56	MA10560-CCB1	1		
13:57	MP24664-MB1	1		
13:59	MP24664-B1	1		
14:00	FA1765-2L	1		
14:02	MP24664-D1	1		
14:03	MP24664-SD1	5		
14:04	MP24664-S1	1		
14:06	MP24664-S2	1		
14:07	FA1765-3L	1		
14:09	ZZZZZZ	1		
14:10	ZZZZZZ	1		
14:12	MA10560-CCV2	1		
14:13	MA10560-CCB2	1		
14:15	ZZZZZZ	1		
14:16	ZZZZZZ	1		
14:17	ZZZZZZ	1		
14:19	ZZZZZZ	1		
14:20	MP24664-MB2	1		
14:21	MP24664-B2	1		
14:23	MP24664-MB3	1		
14:24	MP24664-B3	1		
---------->	Last reportable sample/prep for job FA1765			
14:26	MP24665-MB1	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA1765
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: H40223W1.CSV Date Analyzed: 02/23/13 Methods: SW846 7470A
Analyst: JL Run ID: MA10560
Parameters: Hg

Time	Sample Description	Dilution Factor	PS Recov	Comments
14:27	MP24665-B1	1		
14:29	MA10560-CCV3	1		
14:30	MA10560-CCB3	1		
14:32	FA1679-1R	1		(sample used for QC only; not part of login FA1765)
14:34	MP24665-D1	1		
14:35	MP24665-SD1	5		
14:36	MP24665-S1	1		
14:37	MP24665-S2	1		
14:39	ZZZZZZ	1		
14:41	ZZZZZZ	1		
14:42	ZZZZZZ	1		
14:44	ZZZZZZ	1		
14:45	ZZZZZZ	1		
14:46	MA10560-CCV4	1		
14:47	MA10560-CCB4	1		
14:49	ZZZZZZ	1		
14:51	ZZZZZZ	1		
14:52	MP24665-MB2	1		
14:53	MP24665-B2	1		
14:54	MP24665-MB3	1		
14:56	MP24665-B3	1		
15:00	MA10560-CRI2	1		
15:02	MA10560-CCV5	1		
15:03	MA10560-CCB5	1		

----------> Last reportable CCB for job FA1765
Refer to raw data for calibration curve and standards.

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: FA1765
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: H40223W1.CSV Date Analyzed: 02/23/13 Methods: SW846 7470A
QC Limits: result < RL Run ID: MA10560 Units: ug/l

Time:			13:51		13:56		14:13		14:30	
Sample ID:			ICB1		CCB1		CCB2		CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Mercury	0.50	.03	-0.022	<0.50	-0.0056	<0.50	-0.0061	<0.50	-0.0074	<0.50

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

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: FA1765
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: H40223W1.CSV Date Analyzed: 02/23/13 Methods: SW846 7470A
QC Limits: result < RL Run ID: MA10560 Units: ug/l

Time:			14:47		15:03	
Sample ID:			CCB4		CCB5	
Metal	RL	IDL	raw	final	raw	final
Mercury	0.50	.03	-0.015	<0.50	-0.028	<0.50

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

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA1765
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: H40223W1.CSV Date Analyzed: 02/23/13 Methods: SW846 7470A
QC Limits: 90 to 110 % Recovery Run ID: MA10560 Units: ug/l

Time:		13:49			13:54			14:12	
Sample ID:	ICV	ICV1		CCV	CCV1		CCV	CCV2	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Mercury	3	2.9	96.7	3.0	3.0	100.0	3.0	3.0	100.0

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

6.4.2
6

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA1765
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: H40223W1.CSV Date Analyzed: 02/23/13 Methods: SW846 7470A
QC Limits: 90 to 110 % Recovery Run ID: MA10560 Units: ug/l

Time:		14:29			14:46			15:02	
Sample ID:	CCV	CCV3		CCV	CCV4		CCV	CCV5	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Mercury	3.0	3.0	100.0	3.0	3.0	100.0	3	2.9	96.7

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

6.4.2
6

HIGH STANDARD CHECK SUMMARY

Login Number: FA1765
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: H40223W1.CSV Date Analyzed: 02/23/13 Methods: SW846 7470A
QC Limits: 95 to 105 % Recovery Run ID: MA10560 Units: ug/l

Time:		13:47	
Sample ID:	HSTD	HSTD1	
Metal	True	Results	% Rec
Mercury	6	5.9	98.3

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

6.4.3
6

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: FA1765
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: H40223W1.CSV Date Analyzed: 02/23/13 Methods: SW846 7470A
QC Limits: 80 to 120 % Recovery Run ID: MA10560 Units: ug/l

Time:			13:53		15:00	
Sample ID:	CRI	CRIA	CRI1		CRI2	
Metal	True	True	Results	% Rec	Results	% Rec
Mercury	0.20		0.18	90.0	0.18	90.0

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

6.4.4

6

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: FA1765
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

QC Batch ID: MP24632
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 02/18/13

Metal	RL	IDL	MDL	MB raw	final
Aluminum	200	15	15	-0.60	<200
Antimony	6.0	1.3	1.3	0.0	<6.0
Arsenic	10	1.6	2.5	-0.50	<10
Barium	200	1	1		
Beryllium	4.0	.5	.5		
Cadmium	5.0	.5	.5	-0.10	<5.0
Calcium	1000	50	50	-0.70	<1000
Chromium	10	1.8	2	0.10	<10
Cobalt	50	.5	.5		
Copper	25	1	1		
Iron	300	29	29	-5.8	<300
Lead	5.0	1.1	1.1		
Magnesium	5000	74	74	-2.9	<5000
Manganese	15	.7	.7		
Molybdenum	50	.6	1		
Nickel	40	.5	.5		
Potassium	10000	200	200	23.5	<10000
Selenium	10	2	2	0.60	<10
Silver	10	.5	.5		
Sodium	10000	500	500	10.2	<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 MP24632: FA1765-1F, FA1765-2F, FA1765-3F, FA1765-4F

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: FA1765
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

QC Batch ID: MP24632
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 02/18/13 02/18/13

Metal	FA1781-1 Original	DUP	RPD	QC Limits	FA1781-1 Original	MS	Spikelot MPFLICP1	% Rec	QC Limits
Aluminum	127000	124000(a	2.4	0-20	127000	147000(a	27000	74.1 (b)	80-120
Antimony	0.0	0.0 (a)	NC	0-20	0.0	411 (a)	500	82.2	80-120
Arsenic	10.0	9.9 (a)	1.0	0-20	10.0	1620 (a)	2000	80.5	80-120
Barium	anr								
Beryllium	anr								
Cadmium	3.3	3.3 (a)	0.0	0-20	3.3	45.1 (a)	50	83.6	80-120
Calcium	39500	38700(a)	2.0	0-20	39500	60100(a)	25000	82.4	80-120
Chromium	7.1	7.5 (a)	5.5	0-20	7.1	184 (a)	200	88.5	80-120
Cobalt									
Copper									
Iron	41400	40400(a)	2.4	0-20	41400	62000(a)	26000	79.2N(c)	80-120
Lead	anr								
Magnesium	17000	16500(a)	3.0	0-20	17000	37500(a)	25000	82.0	80-120
Manganese									
Molybdenum									
Nickel	anr								
Potassium	4390	4280 (a)	2.5	0-20	4390	26500(a)	25000	88.4	80-120
Selenium	0.0	0.0 (a)	NC	0-20	0.0	1650 (a)	2000	82.5	80-120
Silver	anr								
Sodium	75800	74500(a)	1.7	0-20	75800	95600(a)	25000	79.2N(c)	80-120
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium									
Zinc									

Associated samples MP24632: FA1765-1F, FA1765-2F, FA1765-3F, FA1765-4F

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: FA1765
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

QC Batch ID: MP24632
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 02/18/13

Metal	FA1781-1 Original	MSD	Spikelot MPFLICP1	% Rec	MSD RPD	QC Limit
Aluminum	127000	150000(a	27000	85.2	2.0	20
Antimony	0.0	416 (a)	500	83.2	1.2	20
Arsenic	10.0	1650 (a)	2000	82.0	1.8	20
Barium	anr					
Beryllium	anr					
Cadmium	3.3	45.7 (a)	50	84.8	1.3	20
Calcium	39500	61400(a)	25000	87.6	2.1	20
Chromium	7.1	185 (a)	200	89.0	0.5	20
Cobalt						
Copper						
Iron	41400	63500(a)	26000	85.0	2.4	20
Lead	anr					
Magnesium	17000	38300(a)	25000	85.2	2.1	20
Manganese						
Molybdenum						
Nickel	anr					
Potassium	4390	26900(a)	25000	90.0	1.5	20
Selenium	0.0	1680 (a)	2000	84.0	1.8	20
Silver	anr					
Sodium	75800	97700(a)	25000	87.6	2.2	20
Strontium						
Thallium	anr					
Tin						
Titanium						
Vanadium						
Zinc						

Associated samples MP24632: FA1765-1F, FA1765-2F, FA1765-3F, FA1765-4F

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.

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: FA1765
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

QC Batch ID: MP24632
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 02/18/13

Metal	BSP Result	Spikelot MPFLICP1	% Rec	QC Limits
Aluminum	28700	27000	106.3	80-120
Antimony	516	500	103.2	80-120
Arsenic	1980	2000	99.0	80-120
Barium	anr			
Beryllium	anr			
Cadmium	51.3	50	102.6	80-120
Calcium	26700	25000	106.8	80-120
Chromium	211	200	105.5	80-120
Cobalt				
Copper				
Iron	28100	26000	108.1	80-120
Lead	anr			
Magnesium	26000	25000	104.0	80-120
Manganese				
Molybdenum				
Nickel	anr			
Potassium	25900	25000	103.6	80-120
Selenium	2020	2000	101.0	80-120
Silver	anr			
Sodium	26400	25000	105.6	80-120
Strontium				
Thallium	anr			
Tin				
Titanium				
Vanadium				
Zinc				

Associated samples MP24632: FA1765-1F, FA1765-2F, FA1765-3F, FA1765-4F

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

SERIAL DILUTION RESULTS SUMMARY

Login Number: FA1765
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

QC Batch ID: MP24632
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 02/18/13

Metal	FA1781-1 Original	SDL 1:5	%DIF	QC Limits
Aluminum	127000	121000	4.5	0-10
Antimony	0.00	0.00	NC	0-10
Arsenic	10.0	0.00	100.0(a)	0-10
Barium	anr			
Beryllium	anr			
Cadmium	3.30	0.00	100.0(a)	0-10
Calcium	39500	38200	3.3	0-10
Chromium	7.10	0.00	100.0(a)	0-10
Cobalt				
Copper				
Iron	41400	39800	3.8	0-10
Lead	anr			
Magnesium	17000	16200	4.3	0-10
Manganese				
Molybdenum				
Nickel	anr			
Potassium	4390	4210	4.1	0-10
Selenium	0.00	0.00	NC	0-10
Silver	anr			
Sodium	75800	72500	4.4	0-10
Strontium				
Thallium	anr			
Tin				
Titanium				
Vanadium				
Zinc				

Associated samples MP24632: FA1765-1F, FA1765-2F, FA1765-3F, FA1765-4F

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: FA1765
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

QC Batch ID: MP24632
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 02/18/13

Metal	Sample ml	Final ml	FA1781-1 Raw	Corr.**	PS ug/l	Spike ml	Spike ug/ml	Spike ug/l	% Rec	QC Limits
Aluminum	9.8	10	126700	124166	128700	0.2	125	2500	181.4*(a	80-120
Antimony	9.8	10	0	0	72.9	0.2	5	100	72.9*(a)	80-120
Arsenic	9.8	10	10	9.8	87.3	0.2	5	100	77.5*(a)	80-120
Barium										
Beryllium										
Cadmium	9.8	10	3.3	3.234	43.6	0.2	2.5	50	80.7	80-120
Calcium	9.8	10	39480	38690.4	44070	0.2	250	5000	107.6	80-120
Chromium	9.8	10	7.1	6.958	48.7	0.2	2.5	50	83.5	80-120
Cobalt										
Copper										
Iron	9.8	10	41410	40581.8	44280	0.2	150	3000	123.3*(a	80-120
Lead										
Magnesium	9.8	10	16970	16630.6	20950	0.2	250	5000	86.4	80-120
Manganese										
Molybdenum										
Nickel										
Potassium	9.8	10	4390	4302.2	12680	0.2	500	10000	83.8	80-120
Selenium	9.8	10	0	0	72.6	0.2	5	100	72.6*(a)	80-120
Silver										
Sodium	9.8	10	75800	74284	83890	0.2	500	10000	96.1	80-120
Strontium										
Thallium										
Tin										
Titanium										
Vanadium										
Zinc										

Associated samples MP24632: FA1765-1F, FA1765-2F, FA1765-3F, FA1765-4F

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: FA1765
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

QC Batch ID: MP24642
Matrix Type: LEACHATE

Methods: SW846 6010C
Units: mg/l

Prep Date:					02/20/13		02/20/13
Metal	RL	IDL	MDL	MB raw	final	MB raw	final
Aluminum	0.20	.015	.015				
Antimony	0.0060	.0013	.0013				
Arsenic	0.010	.0016	.0025	-0.0012	<0.010	-0.0070	<0.10
Barium	0.20	.001	.005	0.0	<0.20	-0.0010	<2.0
Beryllium	0.0040	.0005	.0005				
Cadmium	0.0050	.0005	.0005	-0.00010	<0.0050	-0.0020	<0.050
Calcium	1.0	.05	.05				
Chromium	0.010	.0018	.002	0.0	<0.010	0.0020	<0.10
Cobalt	0.050	.0005	.0005				
Copper	0.025	.001	.001				
Iron	0.30	.029	.029				
Lead	0.0050	.0011	.0011	-0.00070	<0.0050	0.011	<0.050
Magnesium	5.0	.074	.074				
Manganese	0.015	.0007	.0007				
Molybdenum	0.050	.0006	.001				
Nickel	0.040	.0005	.0005				
Potassium	10	.2	.2				
Selenium	0.010	.002	.002	-0.0010	<0.010	-0.014	<0.10
Silver	0.010	.0005	.0005	0.0	<0.010	-0.0010	<0.10
Sodium	10	.5	.5				
Strontium	0.010	.0005	.0005				
Thallium	0.010	.0013	.0013				
Tin	0.050	.0007	.0018				
Titanium	0.010	.0009	.001				
Vanadium	0.050	.0005	.001				
Zinc	0.020	.003	.01				

Associated samples MP24642: FA1765-2L, FA1765-3L

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: FA1765
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

QC Batch ID: MP24642
Matrix Type: LEACHATE

Methods: SW846 6010C
Units: mg/l

Prep Date:	02/20/13							02/20/13	
Metal	FA1765-2L Original	DUP	RPD	QC Limits	FA1765-2L Original	MS	Spikelot MPFLICP1	% Rec	QC Limits
Aluminum									
Antimony									
Arsenic	0.036	0.023	44.1 (a)	0-20	0.036	21.6	20.0	107.8	80-120
Barium	0.079	0.081	2.5	0-20	0.079	22.3	20.0	111.1	80-120
Beryllium									
Cadmium	0.0	0.0	NC	0-20	0.0	0.53	0.50	106.0	80-120
Calcium									
Chromium	0.0	0.0	NC	0-20	0.0	2.2	2.0	110.0	80-120
Cobalt									
Copper									
Iron									
Lead	0.0	0.0	NC	0-20	0.0	5.1	5.0	102.0	80-120
Magnesium									
Manganese									
Molybdenum									
Nickel									
Potassium									
Selenium	0.021	0.031	38.5 (a)	0-20	0.021	22.0	20.0	109.9	80-120
Silver	0.0	0.0	NC	0-20	0.0	0.52	0.50	104.0	80-120
Sodium									
Strontium									
Thallium									
Tin									
Titanium									
Vanadium									
Zinc									

Associated samples MP24642: FA1765-2L, FA1765-3L

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: FA1765
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

QC Batch ID: MP24642
Matrix Type: LEACHATE

Methods: SW846 6010C
Units: mg/l

Prep Date: 02/20/13

Metal	FA1765-2L Original	MSD	Spikelot MPFLICP1	% Rec	MSD RPD	QC Limit
Aluminum						
Antimony						
Arsenic	0.036	21.3	20.0	106.3	1.4	20
Barium	0.079	21.9	20.0	109.1	1.8	20
Beryllium						
Cadmium	0.0	0.52	0.50	104.0	1.9	20
Calcium						
Chromium	0.0	2.2	2.0	110.0	0.0	20
Cobalt						
Copper						
Iron						
Lead	0.0	5.1	5.0	102.0	0.0	20
Magnesium						
Manganese						
Molybdenum						
Nickel						
Potassium						
Selenium	0.021	21.6	20.0	107.9	1.8	20
Silver	0.0	0.51	0.50	102.0	1.9	20
Sodium						
Strontium						
Thallium						
Tin						
Titanium						
Vanadium						
Zinc						

Associated samples MP24642: FA1765-2L, FA1765-3L

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: FA1765
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

QC Batch ID: MP24642
Matrix Type: LEACHATE

Methods: SW846 6010C
Units: mg/l

Prep Date:			02/20/13				02/20/13	
Metal	BSP Result	Spikelot MPFLICP1	% Rec	QC Limits	BSP Result	Spikelot MPFLICP1	% Rec	QC Limits
Aluminum								
Antimony								
Arsenic	2.1	2.0	105.0	80-120	20.7	20.0	103.5	80-120
Barium	2.2	2.0	110.0	80-120	21.3	20.0	106.5	80-120
Beryllium								
Cadmium	0.052	0.050	104.0	80-120	0.52	0.50	104.0	80-120
Calcium								
Chromium	0.22	0.20	110.0	80-120	2.3	2.0	115.0	80-120
Cobalt								
Copper								
Iron								
Lead	0.50	0.50	100.0	80-120	5.0	5.0	100.0	80-120
Magnesium								
Manganese								
Molybdenum								
Nickel								
Potassium								
Selenium	2.1	2.0	105.0	80-120	20.9	20.0	104.5	80-120
Silver	0.050	0.050	100.0	80-120	0.50	0.50	100.0	80-120
Sodium								
Strontium								
Thallium								
Tin								
Titanium								
Vanadium								
Zinc								

Associated samples MP24642: FA1765-2L, FA1765-3L

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

SERIAL DILUTION RESULTS SUMMARY

Login Number: FA1765
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

QC Batch ID: MP24642
Matrix Type: LEACHATE

Methods: SW846 6010C
Units: ug/l

Prep Date: 02/20/13

Metal	FA1765-2L Original	SDL 1:5	%DIF	QC Limits
Aluminum				
Antimony				
Arsenic	3.60	0.00	100.0(a)	0-10
Barium	7.90	9.60	21.5 (a)	0-10
Beryllium				
Cadmium	0.00	0.00	NC	0-10
Calcium				
Chromium	0.00	0.00	NC	0-10
Cobalt				
Copper				
Iron				
Lead	0.00	0.00	NC	0-10
Magnesium				
Manganese				
Molybdenum				
Nickel				
Potassium				
Selenium	2.10	0.00	100.0(a)	0-10
Silver	0.00	0.00	NC	0-10
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc				

Associated samples MP24642: FA1765-2L, FA1765-3L

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).

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: FA1765
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

QC Batch ID: MP24664 Methods: SW846 7470A
Matrix Type: LEACHATE Units: mg/l

Prep Date:				02/23/13		02/23/13		02/23/13	
Metal	RL	IDL	MDL	MB raw	final	MB raw	final	MB raw	final
Mercury	0.00050	.00003	.00005	0.0000074	<0.00050	-0.00051	<0.0050	-0.00024	<0.0050

Associated samples MP24664: FA1765-2L, FA1765-3L

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: FA1765
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

QC Batch ID: MP24664
Matrix Type: LEACHATE

Methods: SW846 7470A
Units: mg/l

Prep Date: 02/23/13 02/23/13

Metal	FA1765-2L Original	DUP	RPD	QC Limits	FA1765-2L Original	MS	Spikelot HGFLWS1	% Rec	QC Limits
Mercury	0.0	0.0	NC	0-20	0.0	0.030	0.030	100.0	80-120

Associated samples MP24664: FA1765-2L, FA1765-3L

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: FA1765
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

QC Batch ID: MP24664
Matrix Type: LEACHATE

Methods: SW846 7470A
Units: mg/l

Prep Date: 02/23/13

Metal	FA1765-2L Original	MSD	Spikelot HGFLWS1	% Rec	MSD RPD	QC Limit
Mercury	0.0	0.030	0.030	100.0	0.0	20

Associated samples MP24664: FA1765-2L, FA1765-3L

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: FA1765
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

QC Batch ID: MP24664
Matrix Type: LEACHATE

Methods: SW846 7470A
Units: mg/l

Prep Date:	02/23/13				02/23/13			
Metal	BSP Result	Spikelot HGFLWS1	% Rec	QC Limits	BSP Result	Spikelot HGFLWS1	% Rec	QC Limits
Mercury	0.0030	0.0030	100.0	80-120	0.030	0.030	100.0	80-120

Associated samples MP24664: FA1765-2L, FA1765-3L

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

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: FA1765
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

QC Batch ID: MP24664
Matrix Type: LEACHATE

Methods: SW846 7470A
Units: mg/l

Prep Date: 02/23/13

Metal	BSP Result	Spikelot HGFLWS1	% Rec	QC Limits
Mercury	0.030	0.030	100.0	80-120

Associated samples MP24664: FA1765-2L, FA1765-3L

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

SERIAL DILUTION RESULTS SUMMARY

Login Number: FA1765
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

QC Batch ID: MP24664
Matrix Type: LEACHATE

Methods: SW846 7470A
Units: ug/l

Prep Date: 02/23/13

Metal	FA1765-2L Original	SDL 1:5	%DIF	QC Limits
Mercury	0.00	0.00	NC	0-10

Associated samples MP24664: FA1765-2L, FA1765-3L

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(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: FA1765
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	GN54292	25	0.0	mg/l	250	255	102.0	90-113%
Alkalinity, Total as CaCO3	GN54293	5.0	0.0	mg/l	250	251	100.0	90-113%
Chloride	GP20997/GN54200	2.0	0.0	mg/l	50	51.1	102.2	90-110%
Fluoride	GP20997/GN54200	0.20	0.0	mg/l	2.5	2.53	101.2	90-110%
Nitrogen, Nitrate	GP20997/GN54200	0.10	0.0	mg/l	2.5	2.45	98.0	90-110%
Nitrogen, Nitrite	GP20997/GN54200	0.10	0.0	mg/l	2.5	2.49	99.6	90-110%
Phosphate, Ortho	GP20987/GN54177	0.10	0.0	mg/l	.300	0.32	108.0	83-116%
Phosphorus, Total	GP21019/GN54249	0.10	0.0	mg/l	.300	0.28	92.1	81-118%
Phosphorus, Total	GP21039/GN54288	0.10	0.0	mg/l	.300	0.28	93.7	81-118%
Solids, Total Dissolved	GN54214	100	0.0	mg/l				
Solids, Total Dissolved	GN54239	100	15.0	mg/l				
Specific Conductivity	GN54168	1.0	0.0	umhos/cm				
Sulfate	GP20997/GN54200	2.0	0.0	mg/l	50	51.9	103.8	90-110%

Associated Samples:
Batch GN54168: FA1765-1, FA1765-2, FA1765-3, FA1765-4
Batch GN54214: FA1765-2, FA1765-3
Batch GN54239: FA1765-1, FA1765-4
Batch GN54292: FA1765-2, FA1765-3
Batch GN54293: FA1765-1, FA1765-4
Batch GP20987: FA1765-1F, FA1765-2F, FA1765-3F, FA1765-4F
Batch GP20997: FA1765-1, FA1765-2, FA1765-3, FA1765-4
Batch GP21019: FA1765-1
Batch GP21039: FA1765-2, FA1765-3, FA1765-4
(*) Outside of QC limits

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: FA1765
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	GN54292	FA1665-5	mg/l	555	550	0.9	0-20%
Alkalinity, Total as CaCO3	GN54293	FA1765-4	mg/l	0.60 U	0.0	0.0	0-20%
Phosphate, Ortho	GP20987/GN54177	FA1765-3F	mg/l	48.1	47.9	0.4	0-26%
Phosphorus, Total	GP21019/GN54249	FA1850-7	mg/l	3.3	3.3	0.0	0-22%
Phosphorus, Total	GP21039/GN54288	FA1779-5	mg/l	23.4	23.3	0.4	0-22%
Solids, Total Dissolved	GN54214	FA1764-2	mg/l	122	122	0.0	0-5%
Solids, Total Dissolved	GN54239	FA1765-1	mg/l	25300	28100(a)	10.5*(a)	0-5%
Specific Conductivity	GN54168	FA1765-1	umhos/cm	18400	18400	0.3	0-10%
pH	GN54170	FA1766-1	su	7.84	7.77	0.9	0-10%

Associated Samples:
Batch GN54168: FA1765-1, FA1765-2, FA1765-3, FA1765-4
Batch GN54170: FA1765-1, FA1765-2, FA1765-3, FA1765-4
Batch GN54214: FA1765-2, FA1765-3
Batch GN54239: FA1765-1, FA1765-4
Batch GN54292: FA1765-2, FA1765-3
Batch GN54293: FA1765-1, FA1765-4
Batch GP20987: FA1765-1F, FA1765-2F, FA1765-3F, FA1765-4F
Batch GP21019: FA1765-1
Batch GP21039: FA1765-2, FA1765-3, FA1765-4
(*) Outside of QC limits
(a) Confirmed by Re-analysis.

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: FA1765
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
Alkalinity, Total as CaCO3	GN54292	FA1665-5	mg/l	555	250	775	88.0*(a)	90-113%
Alkalinity, Total as CaCO3	GN54293	FA1765-4	mg/l	0.60 U	250	255	102.0	90-113%
Chloride	GP20997/GN54200	FA1764-3	mg/l	1.9	50	51.5	99.2	90-110%
Fluoride	GP20997/GN54200	FA1764-3	mg/l	0.94	2.5	3.0	82.4N(a)	90-110%
Nitrogen, Nitrate	GP20997/GN54200	FA1764-3	mg/l	0.050 U	2.5	2.3	92.0	90-110%
Nitrogen, Nitrite	GP20997/GN54200	FA1764-3	mg/l	0.050 U	2.5	2.4	96.0	90-110%
Phosphate, Ortho	GP20987/GN54177	FA1765-3F	mg/l	48.1	.300	49.0	312.0(b)	83-116%
Phosphorus, Total	GP21019/GN54249	FA1850-7	mg/l	3.3	.300	3.5	100.0	81-118%
Phosphorus, Total	GP21039/GN54288	FA1779-5	mg/l	23.4	.300	23.7	99.9	81-118%
Sulfate	GP20997/GN54200	FA1764-3	mg/l	0.60 U	50	49.6	99.2	90-110%

Associated Samples:
Batch GN54292: FA1765-2, FA1765-3
Batch GN54293: FA1765-1, FA1765-4
Batch GP20987: FA1765-1F, FA1765-2F, FA1765-3F, FA1765-4F
Batch GP20997: FA1765-1, FA1765-2, FA1765-3, FA1765-4
Batch GP21019: FA1765-1
Batch GP21039: FA1765-2, FA1765-3, FA1765-4
(*) 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: FA1765
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	GP20997/GN54200	FA1764-3	mg/l	1.9	50	51.5	0.0	
Fluoride	GP20997/GN54200	FA1764-3	mg/l	0.94	2.5	2.9	3.4N(a)	
Nitrogen, Nitrate	GP20997/GN54200	FA1764-3	mg/l	0.050 U	2.5	2.4	4.3	
Nitrogen, Nitrite	GP20997/GN54200	FA1764-3	mg/l	0.050 U	2.5	2.4	0.0	
Phosphate, Ortho	GP20987/GN54177	FA1765-3F	mg/l	48.1	.300	48.3	0.4(b)	26%
Phosphorus, Total	GP21019/GN54249	FA1850-7	mg/l	3.3	.300	3.49	1.7	22%
Phosphorus, Total	GP21039/GN54288	FA1779-5	mg/l	23.4	.300	23.6	0.4	22%
Sulfate	GP20997/GN54200	FA1764-3	mg/l	0.60 U	50	46.9	5.6	

Associated Samples:
Batch GP20987: FA1765-1F, FA1765-2F, FA1765-3F, FA1765-4F
Batch GP20997: FA1765-1, FA1765-2, FA1765-3, FA1765-4
Batch GP21019: FA1765-1
Batch GP21039: FA1765-2, FA1765-3, FA1765-4
(*) 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.

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA1765
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: 313150201.TXT Date Analyzed: 02/15/13 Methods: EPA 300/SW846 9056A
Analyst: AA Run ID: GN54200
Parameters: Chloride,Fluoride,Nitrogen, Nitrate,Sulfate

Time	Sample Description	Dilution Factor	PS Recov	Comments
10:54	GN54200-CCV1	1		
11:10	GN54200-CCB1	1		
11:26	GP20997-MB1	1		
11:42	GP20997-B1	1		
12:29	FA1765-1	100		
12:45	FA1765-2	50		
13:01	FA1765-3	25		
13:17	FA1765-4	1		
13:33	ZZZZZZ	1		
13:49	ZZZZZZ	1		
14:05	GN54200-CCV2	1		
14:21	GN54200-CCB2	1		
14:36	FA1764-3	1		(sample used for QC only; not part of login FA1765)
14:52	ZZZZZZ	1		
15:08	FA1764-5	1		(sample used for QC only; not part of login FA1765)
15:24	ZZZZZZ	1		
15:40	ZZZZZZ	5		
15:56	ZZZZZZ	1		
16:55	ZZZZZZ	2		
17:11	FA1765-1	500		
17:26	GP20997-S1	1		
17:42	GP20997-S2	1		
17:58	GN54200-CCV3	1		
18:14	GN54200-CCB3	1		
18:30	GP20997-S3	1		
18:46	GP20997-S4	1		
19:02	GN54200-CCV4	1		
19:18	GN54200-CCB4	1		
19:34	ZZZZZZ	25		
19:50	ZZZZZZ	25		
20:21	ZZZZZZ	10		
20:37	ZZZZZZ	25		
21:25	ZZZZZZ	5		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA1765
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: 313150201.TXT Date Analyzed: 02/15/13 Methods: EPA 300/SW846 9056A
Analyst: AA Run ID: GN54200
Parameters: Chloride,Fluoride,Nitrogen, Nitrate,Sulfate

Time	Sample Description	Dilution Factor	PS Recov	Comments
22:13	GN54200-CCV5	1		
22:29	GN54200-CCB5	1		

Refer to raw data for calibration curve and standards.

Instrument QC Summary
Inorganics Analyses

Login Number: FA1765
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: 313150201.TXT Date Analyzed: 02/15/13 Methods: EPA 300/SW846 9056A
Run ID: GN54200 Units: mg/l

Sample Number	Parameter	Result	RL	IDL/MDL	True Value	% Recov.	QC Limits
GN54200-CCV1	Fluoride	2.3	0.20	0.060	2.5	92.0	90-110
GN54200-CCV1	Chloride	50.9	2.0	0.80	50	101.8	90-110
GN54200-CCV1	Nitrogen, Nitrate	2.4	0.10	0.050	2.5	96.0	90-110
GN54200-CCV1	Sulfate	50.7	2.0	0.60	50	101.4	90-110
GN54200-CCB1	Fluoride	0.060 U	0.20	0.060			
GN54200-CCB1	Chloride	0.80 U	2.0	0.80			
GN54200-CCB1	Nitrogen, Nitrate	0.050 U	0.10	0.050			
GN54200-CCB1	Sulfate	0.60 U	2.0	0.60			
GN54200-CCV2	Fluoride	2.3	0.20	0.060	2.5	92.0	90-110
GN54200-CCV2	Chloride	51.0	2.0	0.80	50	102.0	90-110
GN54200-CCV2	Nitrogen, Nitrate	2.5	0.10	0.050	2.5	100.0	90-110
GN54200-CCV2	Sulfate	49.2	2.0	0.60	50	98.4	90-110
GN54200-CCB2	Fluoride	0.060 U	0.20	0.060			
GN54200-CCB2	Chloride	0.80 U	2.0	0.80			
GN54200-CCB2	Nitrogen, Nitrate	0.050 U	0.10	0.050			
GN54200-CCB2	Sulfate	0.60 U	2.0	0.60			
GN54200-CCV3	Fluoride	2.3	0.20	0.060	2.5	92.0	90-110
GN54200-CCV3	Chloride	51.0	2.0	0.80	50	102.0	90-110
GN54200-CCV3	Nitrogen, Nitrate	2.5	0.10	0.050	2.5	100.0	90-110
GN54200-CCV3	Sulfate	49.6	2.0	0.60	50	99.2	90-110
GN54200-CCB3	Fluoride	0.060 U	0.20	0.060			
GN54200-CCB3	Chloride	0.80 U	2.0	0.80			
GN54200-CCB3	Nitrogen, Nitrate	0.050 U	0.10	0.050			
GN54200-CCB3	Sulfate	0.60 U	2.0	0.60			
GN54200-CCV4	Fluoride	2.4	0.20	0.060	2.5	96.0	90-110
GN54200-CCV4	Chloride	50.9	2.0	0.80	50	101.8	90-110
GN54200-CCV4	Nitrogen, Nitrate	2.5	0.10	0.050	2.5	100.0	90-110
GN54200-CCV4	Sulfate	49.7	2.0	0.60	50	99.4	90-110
GN54200-CCB4	Fluoride	0.060 U	0.20	0.060			
GN54200-CCB4	Chloride	0.80 U	2.0	0.80			
GN54200-CCB4	Nitrogen, Nitrate	0.050 U	0.10	0.050			
GN54200-CCB4	Sulfate	0.60 U	2.0	0.60			
GN54200-CCV5	Fluoride	2.4	0.20	0.060	2.5	96.0	90-110
GN54200-CCV5	Chloride	51.0	2.0	0.80	50	102.0	90-110
GN54200-CCV5	Nitrogen, Nitrate	2.5	0.10	0.050	2.5	100.0	90-110
GN54200-CCV5	Sulfate	49.9	2.0	0.60	50	99.8	90-110
GN54200-CCB5	Fluoride	0.060 U	0.20	0.060			
GN54200-CCB5	Chloride	0.80 U	2.0	0.80			
GN54200-CCB5	Nitrogen, Nitrate	0.050 U	0.10	0.050			
GN54200-CCB5	Sulfate	0.60 U	2.0	0.60			

(!) Outside of QC limits

Southeast ACCUTEST LABORATORIES

03/04/13

Technical Report for

WSP Environment & Energy

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

36785.01

Accutest Job Number: FA1804

Sampling Dates: 02/14/13 - 02/15/13

Report to:

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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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Accutest Laboratories

Sample Summary

WSP Environment & Energy

Job No: FA1804

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
FA1804-1	02/14/13	15:00	TP	02/16/13	AQ	Ground Water	A-36-105
FA1804-1F	02/14/13	15:00	TP	02/16/13	AQ	Groundwater Filtered	A-36-105
FA1804-1L	02/14/13	15:00	TP	02/16/13	AQ	Ground Water	A-36-105
FA1804-2	02/14/13	16:50	TP	02/16/13	AQ	Ground Water	A-36-145
FA1804-2F	02/14/13	16:50	TP	02/16/13	AQ	Groundwater Filtered	A-36-145
FA1804-2L	02/14/13	16:50	TP	02/16/13	AQ	Ground Water	A-36-145
FA1804-3	02/15/13	11:50	TP	02/16/13	AQ	Ground Water	MWA-110
FA1804-3F	02/15/13	11:50	TP	02/16/13	AQ	Groundwater Filtered	MWA-110
FA1804-4	02/15/13	13:25	TP	02/16/13	AQ	Ground Water	MWB-120
FA1804-4F	02/15/13	13:25	TP	02/16/13	AQ	Groundwater Filtered	MWB-120
FA1804-5	02/15/13	14:25	TP	02/16/13	AQ	Ground Water	NW 9
FA1804-5F	02/15/13	14:25	TP	02/16/13	AQ	Groundwater Filtered	NW 9

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: WSP Environment & Energy **Job No:** FA1804

Site: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID **Report Date:** 3/4/2013 10:51:24 AM

5 Samples were collected on/between 02/14/2013 and 02/15/2013 and were received at Accutest SE on 02/16/2013 properly preserved, at 1.8 Deg. C and intact. These Samples received an Accutest job number of FA1804. 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:** MP24639

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) FA1837-1DUP, FA1837-1MS, FA1837-1MSD, FA1837-1PS, FA1837-1SDL were used as the QC samples for metals.

RPD(s) for Duplicate for Aluminum, Iron are outside control limits for sample MP24639-D1. RPD acceptable due to low duplicate and sample concentrations.

RPD(s) for Serial Dilution for Aluminum, Arsenic, Iron are outside control limits for sample MP24639-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

FA1804-2F for Cadmium: Elevated reporting limit(s) due to matrix interference.

FA1804-2F for Selenium: Elevated reporting limit(s) due to matrix interference.

FA1804-2F for Chromium: Elevated reporting limit(s) due to matrix interference.

FA1804-2F for Antimony: Elevated reporting limit(s) due to matrix interference.

Matrix: LEACHATE **Batch ID:** MP24642

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) FA1765-2LDUP, FA1765-2LMS, FA1765-2LMSD, FA1765-2LSDL were used as the QC samples for metals.

RPD(s) for Duplicate for Arsenic, Selenium are outside control limits for sample MP24642-D1. RPD acceptable due to low duplicate and sample concentrations.

RPD(s) for Serial Dilution for Arsenic, Barium, Selenium are outside control limits for sample MP24642-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Metals By Method SW846 7470A

Matrix: LEACHATE **Batch ID:** MP24664

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) FA1765-2LDUP, FA1765-2LMS, FA1765-2LMSD, FA1765-2LSDL were used as the QC samples for metals.

Wet Chemistry By Method EPA 120.1

Matrix: AQ **Batch ID:** GN54183

All method blanks for this batch meet method specific criteria.

Sample(s) FA1804-4DUP was used as the QC sample for Specific Conductivity.

The following samples were run outside of holding time for method EPA 120.1: FA1804-1, FA1804-2, FA1804-3, FA1804-4, FA1804-5.

FA1804-1, FA1804- 2 for Specific Conductivity: Samples received outside the holding time.

FA1804-3, FA1804-4, FA1804-5 for Specific Conductivity: Sample analyzed beyond holdtime.

Wet Chemistry By Method EPA 300/SW846 9056A

Matrix: AQ **Batch ID:** GP21000

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) FA1804-4MS, FA1804-4MSD were used as the QC samples for Chloride, Nitrogen, Nitrate, Fluoride, Sulfate.

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

FA1804-1 for Nitrogen, Nitrate: Dilution required due to matrix interference.

FA1804-2 for Fluoride: Dilution required due to matrix interference.

FA1804-2 for Nitrogen, Nitrate: Dilution required due to matrix interference.

FA1804-3 for Fluoride: Dilution required due to matrix interference.

FA1804-3 for Nitrogen, Nitrate: Originally ran on GN54208. Re-run on dilution beyond holdtime.

Wet Chemistry By Method EPA 365.3

Matrix: AQ **Batch ID:** GP21008

All samples were prepped within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

The following samples were run outside of holding time for method EPA 365.3: FA1804-1F, FA1804-2F, FA1804-3F, FA1804-4F, FA1804-5F.

FA1804-1F for Phosphate, Ortho: Sample received near the end of hold. Results considered minimum values.

FA1804-2F for Phosphate, Ortho: Sample received near the end of hold. Results considered minimum values.

FA1804-3F for Phosphate, Ortho: Sample received near the end of hold. Results considered minimum values.

FA1804-4F for Phosphate, Ortho: Sample received near the end of hold. Results considered minimum values.

FA1804-5F for Phosphate, Ortho: Sample received near the end of hold. Results considered minimum values.

Matrix: AQ **Batch ID:** GP21053

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA1804-1DUP, FA1804-1MS, FA1804-1MSD were used as the QC samples for Phosphorus, Total.

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

Matrix: AQ **Batch ID:** GN54184

Sample(s) FA1807-2DUP was used as the QC sample for pH.

FA1804-1 for pH: Field analysis required. Received out of hold time and analyzed by request.

FA1804-2 for pH: Field analysis required. Received out of hold time and analyzed by request.

FA1804-3 for pH: Field analysis required. Received out of hold time and analyzed by request.

FA1804-4 for pH: Field analysis required. Received out of hold time and analyzed by request.

FA1804-5 for pH: Field analysis required. Received out of hold time and analyzed by request.

Wet Chemistry By Method SM19 2320B

Matrix: AQ **Batch ID:** GN54409

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA1804-1DUP, FA1804-1MS were used as the QC samples for Alkalinity, Total as CaCO3.

Matrix: AQ **Batch ID:** GN54410

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA1804-2DUP, FA1804-2MS were used as the QC samples for Alkalinity, Total as CaCO3.

Wet Chemistry By Method SM19 2540C

Matrix: AQ **Batch ID:** GN54239

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA1765-1DUP was used as the QC sample for Solids, Total Dissolved.

RPD(s) for Duplicate for Solids, Total Dissolved are outside control limits for sample GN54239-D1. Probable cause is due to sample non-homogeneity.

GN54239-D1 for Solids, Total Dissolved: Confirmed by Re-analysis.

FA1804-2 for Solids, Total Dissolved: Confirmed by reanalysis.

Matrix: AQ **Batch ID:** GN54272

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA1804-4DUP 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: March 4, 2013

Kim Benham, Client Services (signature on file)

Summary of Hits

Job Number: FA1804
Account: WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID
Collected: 02/14/13 thru 02/15/13

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA1804-1	**A-36-105**					
Alkalinity, Bicarbonate as CaCO3		156	5.0	5.0	mg/l	SM18 4500CO2D
Alkalinity, Total as CaCO3		156	5.0	0.60	mg/l	SM19 2320B
Chloride		70.9	50	20	mg/l	EPA 300/SW846 9056A
Fluoride		3.3 J	5.0	1.5	mg/l	EPA 300/SW846 9056A
Nitrogen, Nitrate [a]		2.1 J	2.5	1.3	mg/l	EPA 300/SW846 9056A
Phosphorus, Total		0.85	0.20	0.056	mg/l	EPA 365.3
Solids, Total Dissolved		4970	500	50	mg/l	SM19 2540C
Specific Conductivity [b]		4780	1.0	1.0	umhos/cm	EPA 120.1
Sulfate		3700	100	30	mg/l	EPA 300/SW846 9056A
pH [c]		6.01			su	SM 4500H B/SW 9040C
FA1804-1F	**A-36-105**					
Aluminum		800	200	15	ug/l	SW846 6010C
Cadmium		13.1	5.0	0.50	ug/l	SW846 6010C
Calcium		425000	1000	50	ug/l	SW846 6010C
Chromium		6.2 J	10	2.0	ug/l	SW846 6010C
Iron		2960	300	29	ug/l	SW846 6010C
Magnesium		458000	5000	74	ug/l	SW846 6010C
Potassium		40900	10000	200	ug/l	SW846 6010C
Selenium		43.5	10	2.0	ug/l	SW846 6010C
Sodium		207000	50000	2500	ug/l	SW846 6010C
Phosphate, Ortho [d]		0.19 J	0.50	0.020	mg/l	EPA 365.3
FA1804-1L	**A-36-105**					
Cadmium		0.072	0.050	0.0050	mg/l	SW846 6010C
Chromium		0.020 J	0.10	0.020	mg/l	SW846 6010C
FA1804-2	**A-36-145**					
Alkalinity, Bicarbonate as CaCO3		550	5.0	5.0	mg/l	SM18 4500CO2D
Alkalinity, Total as CaCO3		550	25	13	mg/l	SM19 2320B
Chloride		64.5	50	20	mg/l	EPA 300/SW846 9056A
Phosphorus, Total		0.057 J	0.10	0.028	mg/l	EPA 365.3
Solids, Total Dissolved [e]		4630	200	20	mg/l	SM19 2540C
Specific Conductivity [b]		3970	1.0	1.0	umhos/cm	EPA 120.1
Sulfate		2640	100	30	mg/l	EPA 300/SW846 9056A
pH [c]		6.83			su	SM 4500H B/SW 9040C
FA1804-2F	**A-36-145**					
Antimony [f]		5.7 J	12	2.6	ug/l	SW846 6010C

Summary of Hits

Job Number: FA1804
Account: WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID
Collected: 02/14/13 thru 02/15/13

Lab Sample ID Client Sample ID Analyte	Result/ Qual	RL	MDL	Units	Method
Calcium	662000	2000	100	ug/l	SW846 6010C
Magnesium	370000	5000	74	ug/l	SW846 6010C
Potassium	10600	10000	200	ug/l	SW846 6010C
Sodium	113000	20000	1000	ug/l	SW846 6010C
Phosphate, Ortho [d]	0.097 J	0.10	0.020	mg/l	EPA 365.3
FA1804-2L A-36-145					
No hits reported in this sample.					
FA1804-3 MWA-110					
Alkalinity, Bicarbonate as CaCO3	63.2	5.0	5.0	mg/l	SM18 4500CO2D
Alkalinity, Total as CaCO3	63.2	5.0	0.60	mg/l	SM19 2320B
Chloride	300	50	20	mg/l	EPA 300/SW846 9056A
Fluoride [a]	13.6	5.0	1.5	mg/l	EPA 300/SW846 9056A
Nitrogen, Nitrate [g]	238	5.0	2.5	mg/l	EPA 300/SW846 9056A
Phosphorus, Total	16.7	5.0	1.4	mg/l	EPA 365.3
Solids, Total Dissolved	4180	500	50	mg/l	SM19 2540C
Specific Conductivity [h]	4100	1.0	1.0	umhos/cm	EPA 120.1
Sulfate	1200	50	15	mg/l	EPA 300/SW846 9056A
pH [c]	5.56			su	SM 4500H B/SW 9040C
FA1804-3F MWA-110					
Aluminum	5410	200	15	ug/l	SW846 6010C
Antimony	2.3 J	6.0	1.3	ug/l	SW846 6010C
Arsenic	6.6 J	10	2.5	ug/l	SW846 6010C
Cadmium	26.4	5.0	0.50	ug/l	SW846 6010C
Calcium	351000	1000	50	ug/l	SW846 6010C
Magnesium	252000	5000	74	ug/l	SW846 6010C
Potassium	24900	10000	200	ug/l	SW846 6010C
Selenium	6.2 J	10	2.0	ug/l	SW846 6010C
Sodium	166000	40000	2000	ug/l	SW846 6010C
Phosphate, Ortho [d]	10.1	5.0	0.020	mg/l	EPA 365.3
FA1804-4 MWB-120					
Alkalinity, Bicarbonate as CaCO3	229	5.0	5.0	mg/l	SM18 4500CO2D
Alkalinity, Total as CaCO3	229	5.0	0.60	mg/l	SM19 2320B
Chloride	26.4	4.0	1.6	mg/l	EPA 300/SW846 9056A
Fluoride	16.3	1.0	0.30	mg/l	EPA 300/SW846 9056A
Nitrogen, Nitrate	3.2	0.20	0.10	mg/l	EPA 300/SW846 9056A
Phosphorus, Total	2.5	1.0	0.28	mg/l	EPA 365.3
Solids, Total Dissolved	821	100	10	mg/l	SM19 2540C

Summary of Hits

Job Number: FA1804
Account: WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID
Collected: 02/14/13 thru 02/15/13

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Specific Conductivity [h]		1010	1.0	1.0	umhos/cm	EPA 120.1
Sulfate		270	10	3.0	mg/l	EPA 300/SW846 9056A
pH [c]		6.91			su	SM 4500H B/SW 9040C
FA1804-4F	**MWB-120**					
Aluminum		524	200	15	ug/l	SW846 6010C
Cadmium		2.6 J	5.0	0.50	ug/l	SW846 6010C
Calcium		142000	1000	50	ug/l	SW846 6010C
Magnesium		51800	5000	74	ug/l	SW846 6010C
Potassium		4540 J	10000	200	ug/l	SW846 6010C
Selenium		23.9	10	2.0	ug/l	SW846 6010C
Sodium		33300	10000	500	ug/l	SW846 6010C
Phosphate, Ortho [d]		1.4	0.50	0.020	mg/l	EPA 365.3
FA1804-5	**NW 9**					
Alkalinity, Bicarbonate as CaCO3		257	5.0	5.0	mg/l	SM18 4500CO2D
Alkalinity, Total as CaCO3		257	5.0	0.60	mg/l	SM19 2320B
Chloride		73.0	10	4.0	mg/l	EPA 300/SW846 9056A
Fluoride		12.1	1.0	0.30	mg/l	EPA 300/SW846 9056A
Nitrogen, Nitrate		22.2	0.50	0.25	mg/l	EPA 300/SW846 9056A
Phosphorus, Total		2.5	0.50	0.14	mg/l	EPA 365.3
Solids, Total Dissolved		1410	100	10	mg/l	SM19 2540C
Specific Conductivity [h]		1600	1.0	1.0	umhos/cm	EPA 120.1
Sulfate		565	20	6.0	mg/l	EPA 300/SW846 9056A
pH [c]		6.78			su	SM 4500H B/SW 9040C
FA1804-5F	**NW 9**					
Aluminum		2190	200	15	ug/l	SW846 6010C
Cadmium		4.7 J	5.0	0.50	ug/l	SW846 6010C
Calcium		226000	1000	50	ug/l	SW846 6010C
Magnesium		87900	5000	74	ug/l	SW846 6010C
Potassium		7320 J	10000	200	ug/l	SW846 6010C
Selenium		11.7	10	2.0	ug/l	SW846 6010C
Sodium		63400	10000	500	ug/l	SW846 6010C
Phosphate, Ortho [d]		2.0 J	5.0	0.020	mg/l	EPA 365.3

(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.
(d) Sample received near the end of hold. Results considered minimum values.
(e) Confirmed by reanalysis.
(f) Elevated reporting limit(s) due to matrix interference.

Summary of Hits

Job Number: FA1804
Account: WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID
Collected: 02/14/13 thru 02/15/13

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method

(g) Originally ran on GN54208. Re-run on dilution beyond holdtime.
(h) Sample analyzed beyond hold time.

Southeast ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	A-36-105		
Lab Sample ID:	FA1804-1	**Date Sampled:**	02/14/13
Matrix:	AQ - Ground Water	**Date Received:**	02/16/13
		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
Alkalinity, Bicarbonate as CaC	156	5.0	5.0	mg/l	1	02/28/13	AC	SM18 4500CO2D
Alkalinity, Carbonate	5.0 U	5.0	5.0	mg/l	1	02/28/13	AC	SM18 4500CO2D
Alkalinity, Total as CaCO3	156	5.0	0.60	mg/l	1	02/28/13 07:15	AC	SM19 2320B
Chloride	70.9	50	20	mg/l	25	02/16/13 12:58	AA	EPA 300/SW846 9056A
Fluoride	3.3 J	5.0	1.5	mg/l	25	02/16/13 12:58	AA	EPA 300/SW846 9056A
Nitrogen, Nitrate [a]	2.1 J	2.5	1.3	mg/l	25	02/16/13 12:58	AA	EPA 300/SW846 9056A
Phosphorus, Total	0.85	0.20	0.056	mg/l	2	02/25/13 07:05	LE	EPA 365.3
Solids, Total Dissolved	4970	500	50	mg/l	5	02/20/13	KC	SM19 2540C
Specific Conductivity [b]	4780	1.0	1.0	umhos/cm	1	02/16/13 14:45	AC	EPA 120.1
Sulfate	3700	100	30	mg/l	50	02/18/13 16:09	AA	EPA 300/SW846 9056A
pH [c]	6.01			su	1	02/16/13 14:30	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-36-105		
Lab Sample ID:	FA1804-1F	**Date Sampled:**	02/14/13
Matrix:	AQ - Groundwater Filtered	**Date Received:**	02/16/13
		Percent Solids:	n/a
Project:	Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	800	200	15	ug/l	1	02/19/13	02/20/13	LM	SW846 6010C [1]	SW846 3010A [3]
Antimony	1.3 U	6.0	1.3	ug/l	1	02/19/13	02/20/13	LM	SW846 6010C [1]	SW846 3010A [3]
Arsenic	2.5 U	10	2.5	ug/l	1	02/19/13	02/20/13	LM	SW846 6010C [1]	SW846 3010A [3]
Cadmium	13.1	5.0	0.50	ug/l	1	02/19/13	02/20/13	LM	SW846 6010C [1]	SW846 3010A [3]
Calcium	425000	1000	50	ug/l	1	02/19/13	02/20/13	LM	SW846 6010C [1]	SW846 3010A [3]
Chromium	6.2 J	10	2.0	ug/l	1	02/19/13	02/20/13	LM	SW846 6010C [1]	SW846 3010A [3]
Iron	2960	300	29	ug/l	1	02/19/13	02/20/13	LM	SW846 6010C [1]	SW846 3010A [3]
Magnesium	458000	5000	74	ug/l	1	02/19/13	02/20/13	LM	SW846 6010C [1]	SW846 3010A [3]
Potassium	40900	10000	200	ug/l	1	02/19/13	02/20/13	LM	SW846 6010C [1]	SW846 3010A [3]
Selenium	43.5	10	2.0	ug/l	1	02/19/13	02/20/13	LM	SW846 6010C [1]	SW846 3010A [3]
Sodium	207000	50000	2500	ug/l	5	02/19/13	02/21/13	LM	SW846 6010C [2]	SW846 3010A [3]

(1) Instrument QC Batch: MA10551
(2) Instrument QC Batch: MA10556
(3) Prep QC Batch: MP24639

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:	FA1804-1F	**Date Sampled:**	02/14/13
Matrix:	AQ - Groundwater Filtered	**Date Received:**	02/16/13
		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 [a]	0.19 J	0.50	0.020	mg/l	5	02/19/13 12:00	JA	EPA 365.3

(a) Sample received near the end of hold. Results considered minimum values.

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:	FA1804-1L	**Date Sampled:**	02/14/13
Matrix:	AQ - Ground Water	**Date Received:**	02/16/13
		Percent Solids:	n/a
Project:	Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID		

Metals Analysis, TCLP Leachate SW846 1311

Analyte	Result	HW#	MCL	RL	MDL	Units	DF	Prep	Analyzed	By	Method
Arsenic	0.025 U	D004	5.0	0.10	0.025	mg/l	1	02/20/13	02/20/13	LM	SW846 6010C [1]
Barium	0.050 U	D005	100	2.0	0.050	mg/l	1	02/20/13	02/20/13	LM	SW846 6010C [1]
Cadmium	0.072	D006	1.0	0.050	0.0050	mg/l	1	02/20/13	02/20/13	LM	SW846 6010C [1]
Chromium	0.020 J	D007	5.0	0.10	0.020	mg/l	1	02/20/13	02/20/13	LM	SW846 6010C [1]
Lead	0.011 U	D008	5.0	0.050	0.011	mg/l	1	02/20/13	02/20/13	LM	SW846 6010C [1]
Mercury	0.00050 U	D009	0.20	0.0050	0.00050	mg/l	1	02/23/13	02/23/13	JL	SW846 7470A [2]
Selenium	0.020 U	D010	1.0	0.10	0.020	mg/l	1	02/20/13	02/20/13	LM	SW846 6010C [1]
Silver	0.0050 U	D011	5.0	0.10	0.0050	mg/l	1	02/20/13	02/20/13	LM	SW846 6010C [1]

(1) Instrument QC Batch: MA10550
(2) Instrument QC Batch: MA10560
(3) Prep QC Batch: MP24642
(4) Prep QC Batch: MP24664

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
MCL = Maximum Contamination Level (40 CFR 261 6/96) J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	A-36-145		
Lab Sample ID:	FA1804-2	**Date Sampled:**	02/14/13
Matrix:	AQ - Ground Water	**Date Received:**	02/16/13
		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
Alkalinity, Bicarbonate as CaC	550	5.0	5.0	mg/l	1	02/28/13	AC	SM18 4500CO2D
Alkalinity, Carbonate	5.0 U	5.0	5.0	mg/l	1	02/28/13	AC	SM18 4500CO2D
Alkalinity, Total as CaCO3	550	25	13	mg/l	1	02/28/13 08:00	AC	SM19 2320B
Chloride	64.5	50	20	mg/l	25	02/16/13 13:14	AA	EPA 300/SW846 9056A
Fluoride [a]	1.5 U	5.0	1.5	mg/l	25	02/16/13 13:14	AA	EPA 300/SW846 9056A
Nitrogen, Nitrate [a]	1.3 U	2.5	1.3	mg/l	25	02/16/13 13:14	AA	EPA 300/SW846 9056A
Phosphorus, Total	0.057 J	0.10	0.028	mg/l	1	02/25/13 07:05	LE	EPA 365.3
Solids, Total Dissolved [b]	4630	200	20	mg/l	2	02/20/13	KC	SM19 2540C
Specific Conductivity [c]	3970	1.0	1.0	umhos/cm	1	02/16/13 14:45	AC	EPA 120.1
Sulfate	2640	100	30	mg/l	50	02/18/13 16:41	AA	EPA 300/SW846 9056A
pH [d]	6.83			su	1	02/16/13 14:30	AC	SM 4500H B/SW 9040C

(a) Dilution required due to matrix interference.
(b) Confirmed by reanalysis.
(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:	FA1804-2F	**Date Sampled:**	02/14/13
Matrix:	AQ - Groundwater Filtered	**Date Received:**	02/16/13
		Percent Solids:	n/a
Project:	Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	15 U	200	15	ug/l	1	02/19/13	02/20/13	LM	SW846 6010C [1]	SW846 3010A [3]
Antimony [a]	5.7 J	12	2.6	ug/l	2	02/19/13	02/21/13	LM	SW846 6010C [2]	SW846 3010A [3]
Arsenic	2.5 U	10	2.5	ug/l	1	02/19/13	02/20/13	LM	SW846 6010C [1]	SW846 3010A [3]
Cadmium [a]	1.0 U	10	1.0	ug/l	2	02/19/13	02/21/13	LM	SW846 6010C [2]	SW846 3010A [3]
Calcium	662000	2000	100	ug/l	2	02/19/13	02/21/13	LM	SW846 6010C [2]	SW846 3010A [3]
Chromium [a]	4.0 U	20	4.0	ug/l	2	02/19/13	02/21/13	LM	SW846 6010C [2]	SW846 3010A [3]
Iron	29 U	300	29	ug/l	1	02/19/13	02/20/13	LM	SW846 6010C [1]	SW846 3010A [3]
Magnesium	370000	5000	74	ug/l	1	02/19/13	02/20/13	LM	SW846 6010C [1]	SW846 3010A [3]
Potassium	10600	10000	200	ug/l	1	02/19/13	02/20/13	LM	SW846 6010C [1]	SW846 3010A [3]
Selenium [a]	4.0 U	20	4.0	ug/l	2	02/19/13	02/21/13	LM	SW846 6010C [2]	SW846 3010A [3]
Sodium	113000	20000	1000	ug/l	2	02/19/13	02/21/13	LM	SW846 6010C [2]	SW846 3010A [3]

(1) Instrument QC Batch: MA10551
(2) Instrument QC Batch: MA10556
(3) Prep QC Batch: MP24639

(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:	FA1804-2F	**Date Sampled:**	02/14/13
Matrix:	AQ - Groundwater Filtered	**Date Received:**	02/16/13
		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 [a]	0.097 J	0.10	0.020	mg/l	1	02/19/13 12:00	JA	EPA 365.3

(a) Sample received near the end of hold. Results considered minimum values.

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:	FA1804-2L	**Date Sampled:**	02/14/13
Matrix:	AQ - Ground Water	**Date Received:**	02/16/13
		Percent Solids:	n/a
Project:	Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID		

Metals Analysis, TCLP Leachate SW846 1311

Analyte	Result	HW#	MCL	RL	MDL	Units	DF	Prep	Analyzed	By	Method
Arsenic	0.025 U	D004	5.0	0.10	0.025	mg/l	1	02/20/13	02/20/13	LM	SW846 6010C [1]
Barium	0.050 U	D005	100	2.0	0.050	mg/l	1	02/20/13	02/20/13	LM	SW846 6010C [1]
Cadmium	0.0050 U	D006	1.0	0.050	0.0050	mg/l	1	02/20/13	02/20/13	LM	SW846 6010C [1]
Chromium	0.020 U	D007	5.0	0.10	0.020	mg/l	1	02/20/13	02/20/13	LM	SW846 6010C [1]
Lead	0.011 U	D008	5.0	0.050	0.011	mg/l	1	02/20/13	02/20/13	LM	SW846 6010C [1]
Mercury	0.00050 U	D009	0.20	0.0050	0.00050	mg/l	1	02/23/13	02/23/13	JL	SW846 7470A [2]
Selenium	0.020 U	D010	1.0	0.10	0.020	mg/l	1	02/20/13	02/20/13	LM	SW846 6010C [1]
Silver	0.0050 U	D011	5.0	0.10	0.0050	mg/l	1	02/20/13	02/20/13	LM	SW846 6010C [1]

(1) Instrument QC Batch: MA10550
(2) Instrument QC Batch: MA10560
(3) Prep QC Batch: MP24642
(4) Prep QC Batch: MP24664

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
MCL = Maximum Contamination Level (40 CFR 261 6/96) J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	MWA-110		
Lab Sample ID:	FA1804-3	**Date Sampled:**	02/15/13
Matrix:	AQ - Ground Water	**Date Received:**	02/16/13
		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
Alkalinity, Bicarbonate as CaC	63.2	5.0	5.0	mg/l	1	02/28/13	AC	SM18 4500CO2D
Alkalinity, Carbonate	5.0 U	5.0	5.0	mg/l	1	02/28/13	AC	SM18 4500CO2D
Alkalinity, Total as CaCO3	63.2	5.0	0.60	mg/l	1	02/28/13 07:15	AC	SM19 2320B
Chloride	300	50	20	mg/l	25	02/16/13 12:42	AA	EPA 300/SW846 9056A
Fluoride [a]	13.6	5.0	1.5	mg/l	25	02/16/13 12:42	AA	EPA 300/SW846 9056A
Nitrogen, Nitrate [b]	238	5.0	2.5	mg/l	50	02/18/13 16:25	AA	EPA 300/SW846 9056A
Phosphorus, Total	16.7	5.0	1.4	mg/l	50	02/25/13 07:05	LE	EPA 365.3
Solids, Total Dissolved	4180	500	50	mg/l	5	02/22/13 13:30	KC	SM19 2540C
Specific Conductivity [c]	4100	1.0	1.0	umhos/cm	1	02/16/13 14:45	AC	EPA 120.1
Sulfate	1200	50	15	mg/l	25	02/16/13 12:42	AA	EPA 300/SW846 9056A
pH [d]	5.56			su	1	02/16/13 14:30	AC	SM 4500H B/SW 9040C

(a) Dilution required due to matrix interference.
(b) Originally ran on GN54208. Re-run on dilution beyond holdtime.
(c) Sample analyzed beyond hold 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:	MWA-110		
Lab Sample ID:	FA1804-3F	**Date Sampled:**	02/15/13
Matrix:	AQ - Groundwater Filtered	**Date Received:**	02/16/13
		Percent Solids:	n/a
Project:	Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	5410	200	15	ug/l	1	02/19/13	02/20/13	LM	SW846 6010C [1]	SW846 3010A [3]
Antimony	2.3 J	6.0	1.3	ug/l	1	02/19/13	02/20/13	LM	SW846 6010C [1]	SW846 3010A [3]
Arsenic	6.6 J	10	2.5	ug/l	1	02/19/13	02/20/13	LM	SW846 6010C [1]	SW846 3010A [3]
Cadmium	26.4	5.0	0.50	ug/l	1	02/19/13	02/20/13	LM	SW846 6010C [1]	SW846 3010A [3]
Calcium	351000	1000	50	ug/l	1	02/19/13	02/20/13	LM	SW846 6010C [1]	SW846 3010A [3]
Chromium	2.0 U	10	2.0	ug/l	1	02/19/13	02/20/13	LM	SW846 6010C [1]	SW846 3010A [3]
Iron	29 U	300	29	ug/l	1	02/19/13	02/20/13	LM	SW846 6010C [1]	SW846 3010A [3]
Magnesium	252000	5000	74	ug/l	1	02/19/13	02/20/13	LM	SW846 6010C [1]	SW846 3010A [3]
Potassium	24900	10000	200	ug/l	1	02/19/13	02/20/13	LM	SW846 6010C [1]	SW846 3010A [3]
Selenium	6.2 J	10	2.0	ug/l	1	02/19/13	02/20/13	LM	SW846 6010C [1]	SW846 3010A [3]
Sodium	166000	40000	2000	ug/l	4	02/19/13	02/21/13	LM	SW846 6010C [2]	SW846 3010A [3]

(1) Instrument QC Batch: MA10551
(2) Instrument QC Batch: MA10556
(3) Prep QC Batch: MP24639

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:	FA1804-3F	**Date Sampled:**	02/15/13
Matrix:	AQ - Groundwater Filtered	**Date Received:**	02/16/13
		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 [a]	10.1	5.0	0.020	mg/l	50	02/19/13 12:00	JA	EPA 365.3

(a) Sample received near the end of hold. Results considered minimum values.

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:	FA1804-4	**Date Sampled:**	02/15/13
Matrix:	AQ - Ground Water	**Date Received:**	02/16/13
		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
Alkalinity, Bicarbonate as CaC	229	5.0	5.0	mg/l	1	02/28/13	AC	SM18 4500CO2D
Alkalinity, Carbonate	5.0 U	5.0	5.0	mg/l	1	02/28/13	AC	SM18 4500CO2D
Alkalinity, Total as CaCO3	229	5.0	0.60	mg/l	1	02/28/13 07:15	AC	SM19 2320B
Chloride	26.4	4.0	1.6	mg/l	2	02/16/13 13:29	AA	EPA 300/SW846 9056A
Fluoride	16.3	1.0	0.30	mg/l	5	02/18/13 16:57	AA	EPA 300/SW846 9056A
Nitrogen, Nitrate	3.2	0.20	0.10	mg/l	2	02/16/13 13:29	AA	EPA 300/SW846 9056A
Phosphorus, Total	2.5	1.0	0.28	mg/l	10	02/25/13 07:05	LE	EPA 365.3
Solids, Total Dissolved	821	100	10	mg/l	1	02/22/13 13:30	KC	SM19 2540C
Specific Conductivity [a]	1010	1.0	1.0	umhos/cm	1	02/16/13 14:45	AC	EPA 120.1
Sulfate	270	10	3.0	mg/l	5	02/18/13 16:57	AA	EPA 300/SW846 9056A
pH [b]	6.91			su	1	02/16/13 14:30	AC	SM 4500H B/SW 9040C

(a) Sample analyzed 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:	MWB-120		
Lab Sample ID:	FA1804-4F	**Date Sampled:**	02/15/13
Matrix:	AQ - Groundwater Filtered	**Date Received:**	02/16/13
		Percent Solids:	n/a
Project:	Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	524	200	15	ug/l	1	02/19/13	02/20/13	LM	SW846 6010C [1]	SW846 3010A [2]
Antimony	1.3 U	6.0	1.3	ug/l	1	02/19/13	02/20/13	LM	SW846 6010C [1]	SW846 3010A [2]
Arsenic	2.5 U	10	2.5	ug/l	1	02/19/13	02/20/13	LM	SW846 6010C [1]	SW846 3010A [2]
Cadmium	2.6 J	5.0	0.50	ug/l	1	02/19/13	02/20/13	LM	SW846 6010C [1]	SW846 3010A [2]
Calcium	142000	1000	50	ug/l	1	02/19/13	02/20/13	LM	SW846 6010C [1]	SW846 3010A [2]
Chromium	2.0 U	10	2.0	ug/l	1	02/19/13	02/20/13	LM	SW846 6010C [1]	SW846 3010A [2]
Iron	29 U	300	29	ug/l	1	02/19/13	02/20/13	LM	SW846 6010C [1]	SW846 3010A [2]
Magnesium	51800	5000	74	ug/l	1	02/19/13	02/20/13	LM	SW846 6010C [1]	SW846 3010A [2]
Potassium	4540 J	10000	200	ug/l	1	02/19/13	02/20/13	LM	SW846 6010C [1]	SW846 3010A [2]
Selenium	23.9	10	2.0	ug/l	1	02/19/13	02/20/13	LM	SW846 6010C [1]	SW846 3010A [2]
Sodium	33300	10000	500	ug/l	1	02/19/13	02/20/13	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10551
(2) Prep QC Batch: MP24639

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:	FA1804-4F	**Date Sampled:**	02/15/13
Matrix:	AQ - Groundwater Filtered	**Date Received:**	02/16/13
		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 [a]	1.4	0.50	0.020	mg/l	5	02/19/13 12:00	JA	EPA 365.3

(a) Sample received near the end of hold. Results considered minimum values.

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:	FA1804-5	**Date Sampled:**	02/15/13
Matrix:	AQ - Ground Water	**Date Received:**	02/16/13
		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
Alkalinity, Bicarbonate as CaC	257	5.0	5.0	mg/l	1	02/28/13	AC	SM18 4500CO2D
Alkalinity, Carbonate	5.0 U	5.0	5.0	mg/l	1	02/28/13	AC	SM18 4500CO2D
Alkalinity, Total as CaCO3	257	5.0	0.60	mg/l	1	02/28/13 07:15	AC	SM19 2320B
Chloride	73.0	10	4.0	mg/l	5	02/16/13 13:45	AA	EPA 300/SW846 9056A
Fluoride	12.1	1.0	0.30	mg/l	5	02/16/13 13:45	AA	EPA 300/SW846 9056A
Nitrogen, Nitrate	22.2	0.50	0.25	mg/l	5	02/16/13 13:45	AA	EPA 300/SW846 9056A
Phosphorus, Total	2.5	0.50	0.14	mg/l	5	02/25/13 07:05	LE	EPA 365.3
Solids, Total Dissolved	1410	100	10	mg/l	1	02/22/13 13:30	KC	SM19 2540C
Specific Conductivity [a]	1600	1.0	1.0	umhos/cm	1	02/16/13 14:45	AC	EPA 120.1
Sulfate	565	20	6.0	mg/l	10	02/18/13 17:44	AA	EPA 300/SW846 9056A
pH [b]	6.78			su	1	02/16/13 14:30	AC	SM 4500H B/SW 9040C

(a) Sample analyzed 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:	NW 9		
Lab Sample ID:	FA1804-5F	**Date Sampled:**	02/15/13
Matrix:	AQ - Groundwater Filtered	**Date Received:**	02/16/13
		Percent Solids:	n/a
Project:	Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	2190	200	15	ug/l	1	02/19/13	02/20/13	LM	SW846 6010C [1]	SW846 3010A [2]
Antimony	1.3 U	6.0	1.3	ug/l	1	02/19/13	02/20/13	LM	SW846 6010C [1]	SW846 3010A [2]
Arsenic	2.5 U	10	2.5	ug/l	1	02/19/13	02/20/13	LM	SW846 6010C [1]	SW846 3010A [2]
Cadmium	4.7 J	5.0	0.50	ug/l	1	02/19/13	02/20/13	LM	SW846 6010C [1]	SW846 3010A [2]
Calcium	226000	1000	50	ug/l	1	02/19/13	02/20/13	LM	SW846 6010C [1]	SW846 3010A [2]
Chromium	2.0 U	10	2.0	ug/l	1	02/19/13	02/20/13	LM	SW846 6010C [1]	SW846 3010A [2]
Iron	29 U	300	29	ug/l	1	02/19/13	02/20/13	LM	SW846 6010C [1]	SW846 3010A [2]
Magnesium	87900	5000	74	ug/l	1	02/19/13	02/20/13	LM	SW846 6010C [1]	SW846 3010A [2]
Potassium	7320 J	10000	200	ug/l	1	02/19/13	02/20/13	LM	SW846 6010C [1]	SW846 3010A [2]
Selenium	11.7	10	2.0	ug/l	1	02/19/13	02/20/13	LM	SW846 6010C [1]	SW846 3010A [2]
Sodium	63400	10000	500	ug/l	1	02/19/13	02/20/13	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10551
(2) Prep QC Batch: MP24639

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:	FA1804-5F	**Date Sampled:**	02/15/13
Matrix:	AQ - Groundwater Filtered	**Date Received:**	02/16/13
		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 [a]	2.0 J	5.0	0.020	mg/l	50	02/19/13 12:00	JA	EPA 365.3

(a) Sample received near the end of hold. Results considered minimum values.

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 # FA1804 PAGE 1 OF 1

Accutest Quote #

SKIEF#

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#: 573-717-6759
Sampler(s) Name(s) (Printed): TPATTIE

Project Information

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

Analytical Information

SEE ATTACHED
TCLP

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	SEE ATTACHED	TCLP	LAB USE ONLY
1	A-36-105	021413	1500	TP	GW	5		X			X	X				X	X	
2	A-36-145	021413	1650	TP	GW	5		X			X	X				X	X	
3	MWA-110	021513	1150	TP	GW	4		X			X	X				X		
4	MWB-120	021513	1325	TP	GW	4		X			X	X				X		
5	NW 9	021513	1425	TP	GW	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	021513 1530	2	3 FP 02-16-13	900	4
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: 1-8

5.1 5

FA1804: Chain of Custody
Page 1 of 3

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: FA1804 CLIENT: WSP PROJECT: Argrium

DATE/TIME RECEIVED: 02-16-13 900 {MM/DD/YY 24:00} NIMBER OF COOLERS RECEIVED: 1

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

AIRBILL NUMBERS: 8013 5708 0805

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: 1.4
- [ ] CORRECTED TEMPS: 1.8

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] 02/16/13 REVIEWER SIGNATURE/DATE [signature] 02/16/13

NF 12/10 receipt confirmation 122910.xls

5.1

5

FA1804: Chain of Custody

Page 2 of 3

Metals and O-Phos - Field Filtered

Note: A-34-022 High Phosphate

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

- total dissolved solids (TDS)
- dissolved 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

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: FA1804
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA022013M1.ICP Date Analyzed: 02/20/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10550
Parameters: As,Ba,Cd,Cr,Pb,Se,Ag

Time	Sample Description	Dilution Factor	PS Recov	Comments
07:56	MA10550-STD1	1		STDA
08:01	MA10550-STD2	1		STDB
08:05	MA10550-STD3	1		STDC
08:09	MA10550-STD4	1		STDD
08:14	MA10550-HSTD1	1		
08:20	MA10550-ICV1	1		
08:27	MA10550-ICB1	1		
08:32	MA10550-CRIA1	1		
08:40	MA10550-ICSA1	1		
08:51	MA10550-ICSAB1	1		
08:57	MA10550-CCV1	1		
09:05	MA10550-CCB1	1		
09:09	MP24640-MB1	1		
09:14	MP24640-B1	1		
09:18	FA1848-1	1		(sample used for QC only; not part of login FA1804)
09:23	MP24640-D1	1		
09:27	MP24640-SD1	5		
09:32	MP24640-PS1	1		
09:36	MP24640-S1	1		
09:41	MP24640-S2	1		
09:46	ZZZZZZ	1		
09:50	ZZZZZZ	1		
09:55	MA10550-CCV2	1		
09:59	MA10550-CCB2	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		
10:35	MP24641-MB1	1		
10:39	MP24641-B1	1		
10:44	FA1850-1	1		(sample used for QC only; not part of login FA1804)

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA1804
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA022013M1.ICP Date Analyzed: 02/20/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10550
Parameters: As,Ba,Cd,Cr,Pb,Se,Ag

	Time	Sample Description	Dilution Factor	PS Recov	Comments
	10:48	MA10550-CCV3	1		
	10:53	MA10550-CCB3	1		
	10:57	MP24641-D1	1		
	11:02	MP24641-SD1	5		
	11:06	MP24641-PS1	1		
	11:11	MP24641-S1	1		
	11:15	MP24641-S2	1		
	11:20	ZZZZZZ	1		
	11:24	ZZZZZZ	1		
	11:29	ZZZZZZ	1		
	11:34	ZZZZZZ	1		
	11:38	MA10550-CCV4	1		
	11:42	MA10550-CCB4	1		
	11:57	MP24642-MB1	1		
	12:01	MP24642-B1	1		
	12:05	FA1765-2L	1		(sample used for QC only; not part of login FA1804)
	12:10	MP24642-D1	1		
	12:14	MP24642-SD1	5		
	12:19	MP24642-S1	1		
	12:23	MP24642-S2	1		
	12:28	ZZZZZZ	1		
	12:32	FA1804-1L	1		
	12:37	FA1804-2L	1		
	12:41	MA10550-CCV5	1		
	12:46	MA10550-CCB5	1		
	12:50	ZZZZZZ	1		
	12:55	ZZZZZZ	1		
	12:59	ZZZZZZ	1		
	13:03	MP24642-MB2	1		
	13:08	MP24642-B2	1		
---------->	Last reportable sample/prep for job FA1804				
	13:12	ZZZZZZ	2		
	13:35	MA10550-CCV6	1		
	13:39	MA10550-CCB6	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA1804
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA022013M1.ICP Date Analyzed: 02/20/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10550
Parameters: As,Ba,Cd,Cr,Pb,Se,Ag

Time	Sample Description	Dilution Factor	PS Recov	Comments
13:50	MP24647-MB1	1		
13:55	MP24647-B1	1		
13:59	FA1885-1	1		(sample used for QC only; not part of login FA1804)
14:04	MP24647-D1	1		
14:08	MP24647-SD1	5		
14:13	MP24647-PS1	1		
14:17	MP24647-S1	1		
14:22	MP24647-S2	1		
14:26	ZZZZZZ	1		
14:31	MA10550-CCV7	1		
14:35	MA10550-CCB7	1		
14:40	ZZZZZZ	1		
14:44	MA10550-CRIA2	1		
14:49	MA10550-ICSA2	1		
14:53	MA10550-ICSAB2	1		
14:58	MA10550-CCV8	1		
15:02	MA10550-CCB8	1		

----------> Last reportable CCB for job FA1804
Refer to raw data for calibration curve and standards.

INTERNAL STANDARD SUMMARY

Login Number: FA1804
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA022013M1.ICP Date Analyzed: 02/20/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10550
Parameters: As,Ba,Cd,Cr,Pb,Se,Ag

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
07:56	MA10550-STD1	1740	15257	9135	1031
08:01	MA10550-STD2	1707	14942	8923	976
08:05	MA10550-STD3	1653	14740	8904	899
08:09	MA10550-STD4	1579	14529	8816	827
08:14	MA10550-HSTD1	1579	14707	8809	824
08:20	MA10550-ICV1	1644	14658	8785	894
08:27	MA10550-ICB1	1722 R	15151 R	9173 R	1027 R
08:32	MA10550-CRIA1	1702	15070	9136	994
08:40	MA10550-ICSA1	1526	13578	8300	769
08:51	MA10550-ICSAB1	1509	13470	8237	755
08:57	MA10550-CCV1	1633	14594	8877	873
09:05	MA10550-CCB1	1716	14876	9021	1009
09:09	MP24640-MB1	1731	14883	9054	1020
09:14	MP24640-B1	1702	14818	8968	943
09:18	FA1848-1	1932	17183	10063	957
09:23	MP24640-D1	1913	17123	10026	958
09:27	MP24640-SD1	1802	15864	9364	1005
09:32	MP24640-PS1	1903	16842	9923	943
09:36	MP24640-S1	1863	16669	9859	910
09:41	MP24640-S2	1880	17045	10012	908
09:46	ZZZZZZ	1942	17232	10088	964
09:50	ZZZZZZ	1928	16887	9928	934
09:55	MA10550-CCV2	1670	14816	8890	901
09:59	MA10550-CCB2	1725	15242	9157	1024
10:04	ZZZZZZ	1773	16188	9613	801
10:08	ZZZZZZ	1960	17159	9992	953
10:13	ZZZZZZ	1772	15607	9232	1032
10:17	ZZZZZZ	1852	16365	9681	1023
10:22	ZZZZZZ	2084	18886	11155	922
10:26	ZZZZZZ	2080	18822	11073	926
10:35	MP24641-MB1	1721	15351	9221	1025
10:39	MP24641-B1	1659	15015	9019	918
10:44	FA1850-1	1557	14350	8774	853

INTERNAL STANDARD SUMMARY

Login Number: FA1804
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA022013M1.ICP Date Analyzed: 02/20/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10550
Parameters: As,Ba,Cd,Cr,Pb,Se,Ag

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
10:48	MA10550-CCV3	1658	14725	8684	892
10:53	MA10550-CCB3	1717	15085	9011	1018
10:57	MP24641-D1	1544	14058	8694	850
11:02	MP24641-SD1	1619	14883	9035	929
11:06	MP24641-PS1	1554	14010	8612	851
11:11	MP24641-S1	1547	13969	8539	828
11:15	MP24641-S2	1551	14063	8638	829
11:20	ZZZZZZ	1494	14183	8804	890
11:24	ZZZZZZ	1494	13915	8600	852
11:29	ZZZZZZ	1530	13841	8536	853
11:34	ZZZZZZ	1507	14173	8851	939
11:38	MA10550-CCV4	1581	14510	8841	873
11:42	MA10550-CCB4	1672	15170	9252	1000
11:57	MP24642-MB1	1693	14887	9112	1019
12:01	MP24642-B1	1622	14627	8881	914
12:05	FA1765-2L	1601	14704	9006	926
12:10	MP24642-D1	1607	14423	8815	929
12:14	MP24642-SD1	1660	14516	8871	992
12:19	MP24642-S1	1573	14175	8699	872
12:23	MP24642-S2	1577	14346	8818	871
12:28	ZZZZZZ	1613	14608	8996	938
12:32	FA1804-1L	1620	14394	8834	936
12:37	FA1804-2L	1596	14181	8746	942
12:41	MA10550-CCV5	1614	14276	8747	887
12:46	MA10550-CCB5	1685	14733	9075	1015
12:50	ZZZZZZ	1635	14412	8785	897
12:55	ZZZZZZ	1622	14170	8748	874
12:59	ZZZZZZ	1649	14436	8783	874
13:03	MP24642-MB2	1663	14590	9118	1015
13:08	MP24642-B2	1631	14364	8918	930
13:12	ZZZZZZ	1687	14517	9105	864
13:35	MA10550-CCV6	1607	14148	8869	888
13:39	MA10550-CCB6	1683	14466	9065	1022

INTERNAL STANDARD SUMMARY

Login Number: FA1804
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA022013M1.ICP Date Analyzed: 02/20/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10550
Parameters: As,Ba,Cd,Cr,Pb,Se,Ag

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
13:50	MP24647-MB1	1620	13996	8899	1005
13:55	MP24647-B1	1610	14002	8800	915
13:59	FA1885-1	1783	15362	9623	960
14:04	MP24647-D1	1784	15363	9722	956
14:08	MP24647-SD1	1717	14794	9326	1009
14:13	MP24647-PS1	1785	15370	9659	940
14:17	MP24647-S1	1749	15010	9487	892
14:22	MP24647-S2	1754	15261	9626	890
14:26	ZZZZZZ	1597	14292	9172	971
14:31	MA10550-CCV7	1628	14126	8845	902
14:35	MA10550-CCB7	1691	14402	9055	1033
14:40	ZZZZZZ	1600	14001	8926	940
14:44	MA10550-CRIA2	1697	14642	9184	1009
14:49	MA10550-ICSA2	1517	13062	8302	785
14:53	MA10550-ICSAB2	1502	13021	8356	775
14:58	MA10550-CCV8	1633	14294	8994	903
15:02	MA10550-CCB8	1705	14657	9227	1039

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: FA1804
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA022013M1.ICP Date Analyzed: 02/20/13 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA10550 Units: ug/l

Time:			08:27		09:05		09:59		10:53	
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	0.0	<10	0.0	<10	-1.0	<10	-1.0	<10
Barium	200	1	0.0	<200	0.30	<200	0.20	<200	0.30	<200
Beryllium	4.0	.5	anr							
Cadmium	5.0	.5	0.0	<5.0	0.20	<5.0	0.20	<5.0	0.10	<5.0
Calcium	1000	50	anr							
Chromium	10	1.8	0.20	<10	0.10	<10	0.30	<10	0.20	<10
Cobalt	50	.5	anr							
Copper	25	1	anr							
Iron	300	29	anr							
Lead	5.0	1.1	0.0	<5.0	0.30	<5.0	0.50	<5.0	-0.60	<5.0
Magnesium	5000	74	anr							
Manganese	15	.7	anr							
Molybdenum	50	.6								
Nickel	40	.5	anr							
Potassium	10000	200	anr							
Selenium	10	2	-1.0	<10	-0.80	<10	-2.9	<10	-1.1	<10
Silver	10	.5	0.30	<10	0.0	<10	0.30	<10	0.30	<10
Sodium	10000	500	anr							
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: FA1804
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA022013M1.ICP Date Analyzed: 02/20/13 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA10550 Units: ug/l

Time:			11:42		12:46		13:39		14:35	
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	-0.90	<10	-0.70	<10	-0.90	<10	-0.50	<10
Barium	200	1	0.30	<200	0.20	<200	0.20	<200	0.20	<200
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	anr							
Chromium	10	1.8	0.0	<10	0.20	<10	0.50	<10	0.0	<10
Cobalt	50	.5	anr							
Copper	25	1	anr							
Iron	300	29	anr							
Lead	5.0	1.1	0.30	<5.0	0.70	<5.0	-0.10	<5.0	0.50	<5.0
Magnesium	5000	74	anr							
Manganese	15	.7	anr							
Molybdenum	50	.6								
Nickel	40	.5	anr							
Potassium	10000	200	anr							
Selenium	10	2	0.0	<10	-1.1	<10	0.30	<10	-1.5	<10
Silver	10	.5	0.50	<10	0.40	<10	0.30	<10	0.0	<10
Sodium	10000	500	anr							
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: FA1804
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA022013M1.ICP Date Analyzed: 02/20/13 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA10550 Units: ug/l

Time:			15:02	
Sample ID:			CCB8	
Metal	RL	IDL	raw	final
Aluminum	200	15	anr	
Antimony	6.0	1.3	anr	
Arsenic	10	1.6	-0.10	<10
Barium	200	1	0.40	<200
Beryllium	4.0	.5	anr	
Cadmium	5.0	.5	0.0	<5.0
Calcium	1000	50	anr	
Chromium	10	1.8	0.30	<10
Cobalt	50	.5	anr	
Copper	25	1	anr	
Iron	300	29	anr	
Lead	5.0	1.1	0.30	<5.0
Magnesium	5000	74	anr	
Manganese	15	.7	anr	
Molybdenum	50	.6		
Nickel	40	.5	anr	
Potassium	10000	200	anr	
Selenium	10	2	-0.10	<10
Silver	10	.5	0.10	<10
Sodium	10000	500	anr	
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: FA1804
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA022013M1.ICP Date Analyzed: 02/20/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA10550 Units: ug/l

Time:		08:20			08:57			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	2000	2020	101.0	2000	1980	99.0	2000	1980	99.0
Barium	2000	2130	106.5	2000	2020	101.0	2000	2030	101.5
Beryllium	anr								
Cadmium	2000	2070	103.5	2000	2020	101.0	2000	2030	101.5
Calcium	anr								
Chromium	2000	2120	106.0	2000	2020	101.0	2000	2070	103.5
Cobalt	anr								
Copper	anr								
Iron	anr								
Lead	2000	2030	101.5	2000	2020	101.0	2000	2010	100.5
Magnesium	anr								
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium	anr								
Selenium	2000	2080	104.0	2000	1990	99.5	2000	1980	99.0
Silver	250	248	99.2	250	251	100.4	250	252	100.8
Sodium	anr								
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: FA1804
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA022013M1.ICP Date Analyzed: 02/20/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA10550 Units: ug/l

Time:		10:48			11:38			12:41	
Sample ID:	CCV	CCV3		CCV	CCV4		CCV	CCV5	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	anr								
Arsenic	2000	1970	98.5	2000	2040	102.0	2000	2040	102.0
Barium	2000	2050	102.5	2000	2070	103.5	2000	2050	102.5
Beryllium	anr								
Cadmium	2000	2020	101.0	2000	2040	102.0	2000	2070	103.5
Calcium	anr								
Chromium	2000	2050	102.5	2000	2030	101.5	2000	2130	106.5
Cobalt	anr								
Copper	anr								
Iron	anr								
Lead	2000	2010	100.5	2000	2000	100.0	2000	2010	100.5
Magnesium	anr								
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium	anr								
Selenium	2000	1970	98.5	2000	2070	103.5	2000	2060	103.0
Silver	250	252	100.8	250	255	102.0	250	255	102.0
Sodium	anr								
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: FA1804
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA022013M1.ICP Date Analyzed: 02/20/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA10550 Units: ug/l

Time:		13:35			14:31			14:58	
Sample ID:	CCV	CCV6		CCV	CCV7		CCV	CCV8	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	anr								
Arsenic	2000	2050	102.5	2000	2030	101.5	2000	2030	101.5
Barium	2000	2000	100.0	2000	1990	99.5	2000	1970	98.5
Beryllium	anr								
Cadmium	2000	2090	104.5	2000	2080	104.0	2000	2080	104.0
Calcium	anr								
Chromium	2000	2160	108.0	2000	2200	110.0	2000	2180	109.0
Cobalt	anr								
Copper	anr								
Iron	anr								
Lead	2000	2010	100.5	2000	2000	100.0	2000	2000	100.0
Magnesium	anr								
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium	anr								
Selenium	2000	2070	103.5	2000	2070	103.5	2000	2070	103.5
Silver	250	252	100.8	250	257	102.8	250	254	101.6
Sodium	anr								
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium	anr								
Zinc	anr								

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

HIGH STANDARD CHECK SUMMARY

Login Number: FA1804
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA022013M1.ICP Date Analyzed: 02/20/13 Methods: SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA10550 Units: ug/l

Time:		08:14	
Sample ID:	HSTD	HSTD1	
Metal	True	Results	% Rec
Aluminum	anr		
Antimony	anr		
Arsenic	4000	4040	101.0
Barium	4000	3990	99.8
Beryllium	anr		
Cadmium	4000	3980	99.5
Calcium	anr		
Chromium	4000	3910	97.8
Cobalt	anr		
Copper	anr		
Iron	anr		
Lead	4000	4060	101.5
Magnesium	anr		
Manganese	anr		
Molybdenum			
Nickel	anr		
Potassium	anr		
Selenium	4000	4030	100.8
Silver	500	502	100.4
Sodium	anr		
Strontium			
Thallium	anr		
Tin			
Titanium			
Vanadium	anr		
Zinc	anr		

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

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: FA1804
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA022013M1.ICP Date Analyzed: 02/20/13 Methods: SW846 6010C
QC Limits: CRI 70-130% CRIA 70-130% Run ID: MA10550 Units: ug/l

Time:			08:32		14:44	
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	9.3	93.0	9.6	96.0
Barium	400	200	204	102.0	198	99.0
Beryllium	10	5.0	anr			
Cadmium	10	5.0	5.2	104.0	5.3	106.0
Calcium	2000	1000	anr			
Chromium	20	10	10.5	105.0	11.1	111.0
Cobalt	100	50	anr			
Copper	50	25	anr			
Iron	600	300	anr			
Lead	10	5.0	4.6	92.0	5.7	114.0
Magnesium	10000	5000	anr			
Manganese	30	15	anr			
Molybdenum	100	50				
Nickel	80	40	anr			
Potassium	20000	10000	anr			
Selenium	20	10	8.9	89.0	9.2	92.0
Silver	20	10	8.7	87.0	8.8	88.0
Sodium	20000	10000	anr			
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: FA1804
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA022013M1.ICP Date Analyzed: 02/20/13 Methods: SW846 6010C
QC Limits: 80 to 120 % Recovery Run ID: MA10550 Units: ug/l

Time:			08:40		08:51		14:49		14:53	
Sample ID:	ICSA	ICSAB	ICSA1		ICSAB1		ICSA2		ICSAB2	
Metal	True	True	Results	% Rec	Results	% Rec	Results	% Rec	Results	% Rec
Aluminum	500000	500000	519000	103.8	525000	105.0	502000	100.4	499000	99.8
Antimony		1000	0.0		1020	102.0	-0.30		1040	104.0
Arsenic		1000	0.40		1000	100.0	1.6		1040	104.0
Barium		500	-0.20		499	99.8	-0.60		481	96.2
Beryllium		500	-0.10		481	96.2	-0.10		479	95.8
Cadmium		1000	0.0		847	84.7	-2.3		880	88.0
Calcium	500000	500000	498000	99.6	494000	98.8	508000	101.6	500000	100.0
Chromium		500	0.0		441	88.2	-0.10		482	96.4
Cobalt		500	-0.60		425	85.0	-0.30		421	84.2
Copper		500	1.0		519	103.8	-0.60		525	105.0
Iron	200000	200000	185000	92.5	184000	92.0	190000	95.0	187000	93.5
Lead		1000	0.0		866	86.6	-3.0		868	86.8
Magnesium	500000	500000	524000	104.8	526000	105.2	526000	105.2	519000	103.8
Manganese		500	0.10		459	91.8	-0.70		488	97.6
Molybdenum		1000	0.20		968	96.8	0.70		945	94.5
Nickel		1000	0.0		836	83.6	-0.60		854	85.4
Potassium			-7.4		-23		34.8		37.1	
Selenium		1000	0.0		973	97.3	0.10		1010	101.0
Silver		1000	0.10		976	97.6	0.10		980	98.0
Sodium			76.3		80.9		90.5		90.6	
Strontium		1000	4.2		1100	110.0	4.0		1070	107.0
Thallium		1000	0.0		932	93.2	-0.80		933	93.3
Tin		1000	0.40		902	90.2	-0.10		909	90.9
Titanium		1000	-1.6		1050	105.0	-1.8		1100	110.0
Vanadium		500	-0.60		475	95.0	0.30		501	100.2
Zinc		1000	0.0		857	85.7	0.20		883	88.3

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

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA1804
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB022013M1.ICP Date Analyzed: 02/20/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10551
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
07:57	MA10551-STD1	1		STDA
08:01	MA10551-STD2	1		STDB
08:05	MA10551-STD3	1		STDC
08:09	MA10551-STD4	1		STDD
08:15	MA10551-HSTD1	1		
08:21	MA10551-ICV1	1		
08:29	MA10551-ICB1	1		
08:32	MA10551-CRIA1	1		
08:40	MA10551-ICSA1	1		
08:46	MA10551-ICSAB1	1		
08:53	MA10551-CCV1	1		
08:59	MA10551-CCB1	1		
09:05	MP24639-MB1	1		
09:09	MP24639-B1	1		
09:13	FA1837-1	1		(sample used for QC only; not part of login FA1804)
09:17	MP24639-D1	1		
09:21	MP24639-SD1	5		
09:25	MP24639-PS1	1		
09:29	MP24639-S1	1		
09:33	MP24639-S2	1		
09:37	ZZZZZZ	1		
09:41	ZZZZZZ	1		
09:45	MA10551-CCV2	1		
09:49	MA10551-CCB2	1		
09:53	ZZZZZZ	1		
09:57	ZZZZZZ	1		
10:01	ZZZZZZ	1		
10:06	ZZZZZZ	1		
10:10	ZZZZZZ	1		
10:14	ZZZZZZ	1		
10:18	FA1804-1F	1		
10:22	FA1804-2F	1		
10:27	FA1804-3F	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA1804
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB022013M1.ICP Date Analyzed: 02/20/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10551
Parameters: Al,Sb,As,Cd,Ca,Cr,Fe,Mg,K,Se,Na

	Time	Sample Description	Dilution Factor	PS Recov	Comments
	10:31	FA1804-4F	1		
	10:35	MA10551-CCV3	1		
	10:39	MA10551-CCB3	1		
	10:43	FA1804-5F	1		
---------->	Last reportable sample/prep for job FA1804				
	10:47	FA1781-1	2		(sample used for QC only; not part of login FA1804)
	10:52	MP24632-D1	2		
	10:56	MP24632-S1	2		
	11:00	MP24632-S2	2		
	11:04	MP24632-PS1	2		
	11:08	MP24632-SD1	10		
	11:13	ZZZZZZ	2		
	11:17	ZZZZZZ	25		
	11:21	ZZZZZZ	25		
	11:25	MA10551-CCV4	1		
	11:29	MA10551-CCB4	1		
	11:33	ZZZZZZ	10		
	11:38	ZZZZZZ	10		
	11:42	ZZZZZZ	10		
	11:46	ZZZZZZ	2		
	12:03	MA10551-CRIA2	1		
	12:07	MA10551-ICSA2	1		
	12:11	MA10551-ICSAB2	1		
	12:15	MA10551-CCV5	1		
	12:19	MA10551-CCB5	1		
---------->	Last reportable CCB for job FA1804				
	12:23	MA10551-CCV6	1		
	12:27	MA10551-CCB6	1		

Refer to raw data for calibration curve and standards.

INTERNAL STANDARD SUMMARY

Login Number: FA1804
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB022013M1.ICP Date Analyzed: 02/20/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10551
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	MA10551-STD1	7494	38330	7547	3239
08:01	MA10551-STD2	7472	37843	7567	2986
08:05	MA10551-STD3	7133	35949	7474	2661
08:09	MA10551-STD4	6888	34912	7453	2433
08:15	MA10551-HSTD1	6920	35275	7458	2432
08:21	MA10551-ICV1	7175	36256	7428	2629
08:29	MA10551-ICB1	7571 R	38209 R	7555 R	3246 R
08:32	MA10551-CRIA1	7445	37516	7561	3054
08:40	MA10551-ICSA1	6524	32153	7164	2320
08:46	MA10551-ICSAB1	6602	32550	7192	2307
08:53	MA10551-CCV1	7189	35986	7494	2655
08:59	MA10551-CCB1	7617	38454	7590	3243
09:05	MP24639-MB1	7724	39104	7763	3269
09:09	MP24639-B1	7423	37053	7574	2831
09:13	FA1837-1	7319	36835	7636	2912
09:17	MP24639-D1	7310	36788	7646	2924
09:21	MP24639-SD1	7532	37853	7625	3116
09:25	MP24639-PS1	7280	36773	7640	2859
09:29	MP24639-S1	7335	36384	7585	2716
09:33	MP24639-S2	7344	36177	7639	2726
09:37	ZZZZZZ	7303	36650	7680	2921
09:41	ZZZZZZ	7578	37748	7649	3106
09:45	MA10551-CCV2	7222	35901	7425	2653
09:49	MA10551-CCB2	7621	38161	7477	3206
09:53	ZZZZZZ	7595	37925	7673	3089
09:57	ZZZZZZ	7377	37035	7629	2999
10:01	ZZZZZZ	7336	36737	7581	2900
10:06	ZZZZZZ	7570	37714	7805	2964
10:10	ZZZZZZ	7610	38181	7608	3121
10:14	ZZZZZZ	7586	37567	7606	3105
10:18	FA1804-1F	7365	36261	8239	2344
10:22	FA1804-2F	6408	32286	7256	2389
10:27	FA1804-3F	6587	33720	7338	2434

INTERNAL STANDARD SUMMARY

Login Number: FA1804
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB022013M1.ICP Date Analyzed: 02/20/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10551
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	FA1804-4F	7040	35633	7414	2734
10:35	MA10551-CCV3	7164	35423	7377	2644
10:39	MA10551-CCB3	7569	37767	7524	3231
10:43	FA1804-5F	6839	34621	7373	2630
10:47	FA1781-1	9300	45309	9338	2846
10:52	MP24632-D1	9265	45057	9406	2858
10:56	MP24632-S1	9061	44250	9382	2777
11:00	MP24632-S2	9114	44622	9362	2774
11:04	MP24632-PS1	9220	44973	9299	2838
11:08	MP24632-SD1	7946	39283	7748	3092
11:13	ZZZZZZ	9027	45092	9085	2990
11:17	ZZZZZZ	8557	42635	8570	3127
11:21	ZZZZZZ	8247	41399	8286	3121
11:25	MA10551-CCV4	7128	35474	7356	2638
11:29	MA10551-CCB4	7556	37789	7366	3223
11:33	ZZZZZZ	7868	38490	8296	2563
11:38	ZZZZZZ	7245	36240	7448	2952
11:42	ZZZZZZ	7257	36405	7409	2942
11:46	ZZZZZZ	8540	42391	8576	2984
12:03	MA10551-CRIA2	7343	36884	7369	3057
12:07	MA10551-ICSA2	6484	31799	7044	2347
12:11	MA10551-ICSAB2	6506	32251	6996	2285
12:15	MA10551-CCV5	7107	35526	7224	2646
12:19	MA10551-CCB5	7439	37401	7342	3244
12:23	MA10551-CCV6	7050	35156	7295	2670
12:27	MA10551-CCB6	7452	37729	7366	3239

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: FA1804
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB022013M1.ICP Date Analyzed: 02/20/13 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA10551 Units: ug/l

Time:			08:29		08:59		09:49		10:39	
Sample ID:			ICB1		CCB1		CCB2		CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	15	-4.6	<200	-4.9	<200	2.8	<200	-9.8	<200
Antimony	6.0	1.3	-0.20	<6.0	1.2	<6.0	1.0	<6.0	0.0	<6.0
Arsenic	10	1.6	0.60	<10	0.60	<10	0.10	<10	0.20	<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	-3.1	<1000	1.7	<1000	-1.6	<1000	8.3	<1000
Chromium	10	1.8	-0.30	<10	-0.30	<10	-0.20	<10	-0.20	<10
Cobalt	50	.5								
Copper	25	1	anr							
Iron	300	29	-5.5	<300	0.50	<300	-1.3	<300	3.5	<300
Lead	5.0	1.1	anr							
Magnesium	5000	74	-1.6	<5000	-14	<5000	-12	<5000	-16	<5000
Manganese	15	.7	anr							
Molybdenum	50	.6								
Nickel	40	.5	anr							
Potassium	10000	200	30.3	<10000	-1.7	<10000	35.7	<10000	28.5	<10000
Selenium	10	2	0.30	<10	-1.1	<10	-0.80	<10	1.1	<10
Silver	10	.5	anr							
Sodium	10000	500	8.5	<10000	19.6	<10000	30.3	<10000	49.9	<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: FA1804
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB022013M1.ICP Date Analyzed: 02/20/13 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA10551 Units: ug/l

Time:			11:29		12:19	
Sample ID:			CCB4		CCB5	
Metal	RL	IDL	raw	final	raw	final
Aluminum	200	15	-2.5	<200	-2.6	<200
Antimony	6.0	1.3	-0.10	<6.0	0.20	<6.0
Arsenic	10	1.6	0.70	<10	0.0	<10
Barium	200	1	anr			
Beryllium	4.0	.5	anr			
Cadmium	5.0	.5	0.0	<5.0	0.10	<5.0
Calcium	1000	50	-0.90	<1000	7.7	<1000
Chromium	10	1.8	-0.20	<10	0.0	<10
Cobalt	50	.5				
Copper	25	1	anr			
Iron	300	29	-1.6	<300	4.6	<300
Lead	5.0	1.1	anr			
Magnesium	5000	74	-11	<5000	-11	<5000
Manganese	15	.7	anr			
Molybdenum	50	.6				
Nickel	40	.5	anr			
Potassium	10000	200	3.4	<10000	19.1	<10000
Selenium	10	2	0.40	<10	-0.10	<10
Silver	10	.5	anr			
Sodium	10000	500	37.8	<10000	26.3	<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

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA1804
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB022013M1.ICP Date Analyzed: 02/20/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA10551 Units: ug/l

Time:		08:21			08:53			09:45	
Sample ID:	ICV	ICV1		CCV	CCV1		CCV	CCV2	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	41100	102.8	40000	40200	100.5	40000	40400	101.0
Antimony	2000	1990	99.5	2000	1940	97.0	2000	1910	95.5
Arsenic	2000	1970	98.5	2000	1940	97.0	2000	1910	95.5
Barium	anr								
Beryllium	anr								
Cadmium	2000	2050	102.5	2000	1980	99.0	2000	1980	99.0
Calcium	40000	41700	104.3	40000	40300	100.8	40000	40400	101.0
Chromium	2000	2040	102.0	2000	2000	100.0	2000	2020	101.0
Cobalt									
Copper	anr								
Iron	40000	40000	100.0	40000	39400	98.5	40000	38700	96.8
Lead	anr								
Magnesium	40000	39300	98.3	40000	39600	99.0	40000	39500	98.8
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium	40000	40200	100.5	40000	39900	99.8	40000	39800	99.5
Selenium	2000	2020	101.0	2000	1940	97.0	2000	1910	95.5
Silver	anr								
Sodium	40000	41300	103.3	40000	40500	101.3	40000	40600	101.5
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: FA1804
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB022013M1.ICP Date Analyzed: 02/20/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA10551 Units: ug/l

Time:		10:35			11:25			12:15	
Sample ID:	CCV	CCV3		CCV	CCV4		CCV	CCV5	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	40500	101.3	40000	40500	101.3	40000	40200	100.5
Antimony	2000	1930	96.5	2000	1940	97.0	2000	1950	97.5
Arsenic	2000	1930	96.5	2000	1940	97.0	2000	1940	97.0
Barium	anr								
Beryllium	anr								
Cadmium	2000	1990	99.5	2000	1990	99.5	2000	1980	99.0
Calcium	40000	40300	100.8	40000	40200	100.5	40000	40000	100.0
Chromium	2000	2030	101.5	2000	2020	101.0	2000	2010	100.5
Cobalt									
Copper	anr								
Iron	40000	38300	95.8	40000	39000	97.5	40000	38800	97.0
Lead	anr								
Magnesium	40000	39200	98.0	40000	39500	98.8	40000	39300	98.3
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium	40000	40400	101.0	40000	40700	101.8	40000	40400	101.0
Selenium	2000	1940	97.0	2000	1940	97.0	2000	1950	97.5
Silver	anr								
Sodium	40000	41000	102.5	40000	40900	102.3	40000	40700	101.8
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium									
Zinc	anr								

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

HIGH STANDARD CHECK SUMMARY

Login Number: FA1804
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB022013M1.ICP Date Analyzed: 02/20/13 Methods: SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA10551 Units: ug/l

Time:		08:15	
Sample ID:	HSTD	HSTD1	
Metal	True	Results	% Rec
Aluminum	80000	79400	99.3
Antimony	4000	4000	100.0
Arsenic	4000	4010	100.3
Barium	anr		
Beryllium	anr		
Cadmium	4000	3960	99.0
Calcium	80000	79100	98.9
Chromium	4000	3970	99.3
Cobalt			
Copper	anr		
Iron	80000	79200	99.0
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	79100	98.9
Strontium			
Thallium	anr		
Tin			
Titanium			
Vanadium			
Zinc	anr		

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

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: FA1804
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB022013M1.ICP Date Analyzed: 02/20/13 Methods: SW846 6010C
QC Limits: CRI 70-130% CRIA 70-130% Run ID: MA10551 Units: ug/l

Time:			08:32		12:03	
Sample ID:	CRI	CRIA	CRIA1		CRIA2	
Metal	True	True	Results	% Rec	Results	% Rec
Aluminum	400	200	206	103.0	199	99.5
Antimony	10	5.0	5.9	118.0	5.5	110.0
Arsenic	20	10	10.5	105.0	9.8	98.0
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	1020	102.0
Chromium	20	10	9.8	98.0	9.9	99.0
Cobalt	100	50				
Copper	50	25	anr			
Iron	600	300	296	98.7	291	97.0
Lead	10	5.0	anr			
Magnesium	10000	5000	5040	100.8	5010	100.2
Manganese	30	15	anr			
Molybdenum	100	50				
Nickel	80	40	anr			
Potassium	20000	10000	9910	99.1	10300	103.0
Selenium	20	10	9.4	94.0	10.5	105.0
Silver	20	10	anr			
Sodium	20000	10000	10100	101.0	10300	103.0
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

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

Login Number: FA1804
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SB022013M1.ICP Date Analyzed: 02/20/13 Methods: SW846 6010C
QC Limits: 80 to 120 % Recovery Run ID: MA10551 Units: ug/l

Time:			08:40		08:46		12:07		12:11	
Sample ID:	ICSA	ICSAB	ICSA1		ICSAB1		ICSA2		ICSAB2	
Metal	True	True	Results	% Rec	Results	% Rec	Results	% Rec	Results	% Rec
Aluminum	500000	500000	499000	99.8	506000	101.2	511000	102.2	501000	100.2
Antimony		1000	1.2		977	97.7	1.8		987	98.7
Arsenic		1000	0.0		984	98.4	0.10		993	99.3
Barium		500	-0.70		477	95.4	-0.60		482	96.4
Beryllium		500	-0.30		446	89.2	-0.40		448	89.6
Cadmium		1000	-0.80		867	86.7	-0.90		866	86.6
Calcium	500000	500000	481000	96.2	480000	96.0	480000	96.0	473000	94.6
Chromium		500	-0.20		450	90.0	-0.80		450	90.0
Cobalt		500	0.30		428	85.6	0.20		428	85.6
Copper		500	-0.60		478	95.6	-0.80		484	96.8
Iron	200000	200000	183000	91.5	176000	88.0	182000	91.0	177000	88.5
Lead		1000	0.10		870	87.0	-3.4		865	86.5
Magnesium	500000	500000	478000	95.6	472000	94.4	474000	94.8	468000	93.6
Manganese		500	-0.40		449	89.8	-0.50		453	90.6
Molybdenum		1000	0.10		929	92.9	-0.30		943	94.3
Nickel		1000	0.70		831	83.1	0.50		839	83.9
Potassium			176		100		149		50.5	
Selenium		1000	-1.2		955	95.5	-2.5		965	96.5
Silver		1000	-0.90		920	92.0	-0.40		928	92.8
Sodium			177		164		203		136	
Strontium		1000	4.6		1030	103.0	4.9		1050	105.0
Thallium		1000	0.40		962	96.2	1.0		956	95.6
Tin		1000	-0.70		897	89.7	-0.90		905	90.5
Titanium		1000	-2.9		1010	101.0	-3.1		1030	103.0
Vanadium		500	-0.40		474	94.8	0.0		477	95.4
Zinc		1000	-0.80		872	87.2	-1.2		871	87.1

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

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA1804
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA022113M1.ICP Date Analyzed: 02/21/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10556
Parameters: Sb,Cd,Ca,Cr,Se,Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
08:02	MA10556-STD1	1		STDA
08:07	MA10556-STD2	1		STDB
08:11	MA10556-STD3	1		STDC
08:16	MA10556-STD4	1		STDD
08:22	MA10556-HSTD1	1		
08:26	MA10556-ICV1	1		
08:32	MA10556-ICB1	1		
08:36	MA10556-CRIA1	1		
08:45	MA10556-ICSA1	1		
08:54	MA10556-ICSAB1	1		
09:04	MA10556-CCV1	1		
09:11	MA10556-CCB1	1		
09:15	MP24648-MB1	1		
09:20	MP24648-B1	1		
09:24	FA1871-1	1		(sample used for QC only; not part of login FA1804)
09:28	MP24648-D1	1		
09:33	MP24648-SD1	5		
09:37	MP24648-PS1	1		
09:42	MP24648-S1	1		
09:46	MP24648-S2	1		
09:50	ZZZZZZ	1		
09:55	ZZZZZZ	1		
09:59	MA10556-CCV2	1		
10:03	MA10556-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		
10:40	ZZZZZZ	1		
10:44	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA1804
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA022113M1.ICP Date Analyzed: 02/21/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10556
Parameters: Sb,Cd,Ca,Cr,Se,Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
10:49	ZZZZZZ	1		
10:53	MA10556-CCV3	1		
10:57	MA10556-CCB3	1		
11:02	ZZZZZZ	1		
11:06	ZZZZZZ	1		
11:11	ZZZZZZ	1		
11:15	ZZZZZZ	1		
11:20	MP24648-MB2	1		
11:24	ZZZZZZ	10		
11:29	FA1850-1	4		(sample used for QC only; not part of login FA1804)
11:34	MP24641-D1	4		
11:38	MP24641-S1	4		
11:42	MP24641-S2	4		
11:47	MA10556-CCV4	1		
11:51	MA10556-CCB4	1		
12:15	MA10556-CCV5	1		
12:22	MA10556-CCB5	1		
12:26	MP24641-PS1	4		
12:31	MP24641-SD1	20		
12:35	ZZZZZZ	4		
12:40	ZZZZZZ	4		
12:44	FA1804-1F	5		
12:49	FA1804-2F	2		
12:54	FA1804-3F	4		
---------->	Last reportable sample/prep for job FA1804			
12:58	MP24653-MB1	1		
13:03	MP24653-B1	1		
13:07	FA1883-14	1		(sample used for QC only; not part of login FA1804)
13:11	MA10556-CCV6	1		
13:16	MA10556-CCB6	1		
13:20	MP24653-D1	1		
13:25	MP24653-SD1	5		
13:29	MP24653-PS1	1		
13:34	MP24653-S1	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA1804
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA022113M1.ICP Date Analyzed: 02/21/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10556
Parameters: Sb,Cd,Ca,Cr,Se,Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
13:38	MP24653-S2	1		
13:43	ZZZZZZ	1		
13:52	ZZZZZZ	1		
14:02	ZZZZZZ	1		
14:06	MA10556-CCV7	1		
14:10	MA10556-CCB7	1		
14:15	ZZZZZZ	1		
14:30	ZZZZZZ	1		
14:35	ZZZZZZ	1		
14:39	ZZZZZZ	1		
14:44	ZZZZZZ	1		
14:49	ZZZZZZ	1		
14:59	ZZZZZZ	1		
15:03	MA10556-CCV8	1		
15:08	MA10556-CCB8	1		
15:21	ZZZZZZ	1		
15:26	ZZZZZZ	5		
15:30	MA10556-CRIA2	1		
15:34	MA10556-ICSA2	1		
15:39	MA10556-ICSAB2	1		
16:02	MA10556-CCV9	1		
16:06	MA10556-CCB9	1		

----------> Last reportable CCB for job FA1804
Refer to raw data for calibration curve and standards.

INTERNAL STANDARD SUMMARY

Login Number: FA1804
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA022113M1.ICP Date Analyzed: 02/21/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10556
Parameters: Sb,Cd,Ca,Cr,Se,Na

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
08:02	MA10556-STD1	1769	14177	8222	991
08:07	MA10556-STD2	1762	14192	8121	947
08:11	MA10556-STD3	1725	14008	8003	889
08:16	MA10556-STD4	1641	13495	7735	819
08:22	MA10556-HSTD1	1653	13529	7858	820
08:26	MA10556-ICV1	1707	13921	8012	875
08:32	MA10556-ICB1	1768 R	14072 R	8094 R	983 R
08:36	MA10556-CRIA1	1742	13782	7900	964
08:45	MA10556-ICSA1	1592	13048	7563	766
08:54	MA10556-ICSAB1	1587	13104	7529	756
09:04	MA10556-CCV1	1711	13801	7903	878
09:11	MA10556-CCB1	1751	13859	7997	971
09:15	MP24648-MB1	1752	14005	8143	971
09:20	MP24648-B1	1737	13872	8003	916
09:24	FA1871-1	1742	13731	8001	959
09:28	MP24648-D1	1761	13996	8203	973
09:33	MP24648-SD1	1739	13724	8072	962
09:37	MP24648-PS1	1746	14314	8135	946
09:42	MP24648-S1	1749	14144	8054	920
09:46	MP24648-S2	1721	13929	7992	911
09:50	ZZZZZZ	1731	14116	8116	960
09:55	ZZZZZZ	1756	14181	8231	979
09:59	MA10556-CCV2	1714	14063	7955	876
10:03	MA10556-CCB2	1767	14030	8007	989
10:08	ZZZZZZ	1723	13990	8073	960
10:12	ZZZZZZ	1751	14112	8183	975
10:17	ZZZZZZ	1718	14114	8118	950
10:21	ZZZZZZ	1749	14241	8186	976
10:26	ZZZZZZ	1757	14136	8117	977
10:30	ZZZZZZ	1615	13549	7796	851
10:35	ZZZZZZ	1585	13461	7811	778
10:40	ZZZZZZ	1677	13883	8001	917
10:44	ZZZZZZ	1669	13813	7922	916

INTERNAL STANDARD SUMMARY

Login Number: FA1804
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA022113M1.ICP Date Analyzed: 02/21/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10556
Parameters: Sb,Cd,Ca,Cr,Se,Na

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
10:49	ZZZZZZ	1684	13663	7923	935
10:53	MA10556-CCV3	1695	13735	7899	872
10:57	MA10556-CCB3	1739	13946	8025	976
11:02	ZZZZZZ	1706	13685	7948	942
11:06	ZZZZZZ	1705	13791	7958	941
11:11	ZZZZZZ	1708	13888	8060	945
11:15	ZZZZZZ	1712	13860	8010	935
11:20	MP24648-MB2	1742	13777	8058	991
11:24	ZZZZZZ	1803	13895	8004	900
11:29	FA1850-1	1659	13677	7988	913
11:34	MP24641-D1	1656	13496	7884	917
11:38	MP24641-S1	1671	13513	7923	910
11:42	MP24641-S2	1670	13539	7955	902
11:47	MA10556-CCV4	1692	13566	7897	876
11:51	MA10556-CCB4	1742	13607	7965	989
12:15	MA10556-CCV5	1680	13495	7895	873
12:22	MA10556-CCB5	1731	13598	7979	982
12:26	MP24641-PS1	1644	13247	7847	917
12:31	MP24641-SD1	1690	13535	8034	965
12:35	ZZZZZZ	1636	13402	8013	934
12:40	ZZZZZZ	1641	13238	7907	920
12:44	FA1804-1F	1651	13446	7910	867
12:49	FA1804-2F	1521	12814	7573	807
12:54	FA1804-3F	1619	13173	7779	878
12:58	MP24653-MB1	1728	13329	8058	999
13:03	MP24653-B1	1701	13536	8035	926
13:07	FA1883-14	1975	16079	9528	884
13:11	MA10556-CCV6	1677	13333	7873	876
13:16	MA10556-CCB6	1707	13239	7884	978
13:20	MP24653-D1	2065	16672	9897	880
13:25	MP24653-SD1	1789	13979	8290	950
13:29	MP24653-PS1	1951	15655	9350	874
13:34	MP24653-S1	2101	17111	10203	847

INTERNAL STANDARD SUMMARY

Login Number: FA1804
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA022113M1.ICP Date Analyzed: 02/21/13 Methods: SW846 6010C
Analyst: LM Run ID: MA10556
Parameters: Sb,Cd,Ca,Cr,Se,Na

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
13:38	MP24653-S2	2016	16499	9766	861
13:43	ZZZZZZ	2315 !	18279 !	10856 !	843
13:52	ZZZZZZ	2249 !	18216 !	10688 !	841
14:02	ZZZZZZ	2365 !	18652 !	11119 !	855
14:06	MA10556-CCV7	1668	13226	7895	871
14:10	MA10556-CCB7	1709	13271	7944	980
14:15	ZZZZZZ				
14:30	ZZZZZZ	2484 !	19727 !	11838 !	860
14:35	ZZZZZZ	2719 !	21925 !	13054 !	851
14:39	ZZZZZZ	2358 !	18784 !	11219 !	865
14:44	ZZZZZZ	2374 !	18697 !	11195 !	883
14:49	ZZZZZZ	2407 !	19495 !	11612 !	817
14:59	ZZZZZZ	2454 !	19404 !	11574 !	879
15:03	MA10556-CCV8	1667	13056	7823	873
15:08	MA10556-CCB8	1698	13200	8001	975
15:21	ZZZZZZ	2275 !	18127 !	10870 !	893
15:26	ZZZZZZ	1835	14318	8633	923
15:30	MA10556-CRIA2	1681	12986	7789	962
15:34	MA10556-ICSA2	1534	12209	7446	756
15:39	MA10556-ICSAB2	1536	12283	7497	750
16:02	MA10556-CCV9	1621	12562	7717	865
16:06	MA10556-CCB9	1657	12421	7683	976

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: FA1804
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA022113M1.ICP Date Analyzed: 02/21/13 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA10556 Units: ug/l

Time:			08:32		09:11		10:03		10:57	
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	0.90	<6.0	0.50	<6.0	-0.20	<6.0	0.0	<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	0.20	<5.0	0.10	<5.0
Calcium	1000	50	0.60	<1000	7.3	<1000	11.4	<1000	7.6	<1000
Chromium	10	1.8	-0.50	<10	0.40	<10	0.20	<10	0.10	<10
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	1.2	<10	-0.10	<10	-1.5	<10	1.2	<10
Silver	10	.5	anr							
Sodium	10000	500	1.9	<10000	-2.9	<10000	4.3	<10000	5.0	<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: FA1804
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA022113M1.ICP Date Analyzed: 02/21/13 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA10556 Units: ug/l

Time:			11:51		12:22		13:16		14:10	
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	0.0	<6.0	0.50	<6.0	-0.50	<6.0	1.0	<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	0.20	<5.0	0.10	<5.0
Calcium	1000	50	5.4	<1000	5.9	<1000	9.3	<1000	8.7	<1000
Chromium	10	1.8	0.0	<10	0.0	<10	-0.10	<10	0.20	<10
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	-0.40	<10	-2.0	<10	-0.70	<10	-0.40	<10
Silver	10	.5	anr							
Sodium	10000	500	-0.60	<10000	1.3	<10000	1.8	<10000	-0.70	<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: FA1804
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA022113M1.ICP Date Analyzed: 02/21/13 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA10556 Units: ug/l

Time:			15:08		16:06	
Sample ID:			CCB8		CCB9	
Metal	RL	IDL	raw	final	raw	final
Aluminum	200	15	anr			
Antimony	6.0	1.3	-0.10	<6.0	1.2	<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
Calcium	1000	50	9.3	<1000	6.4	<1000
Chromium	10	1.8	-0.10	<10	0.40	<10
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	-2.8	<10	-4.5	<10
Silver	10	.5	anr			
Sodium	10000	500	6.8	<10000	6.7	<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: FA1804
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA022113M1.ICP Date Analyzed: 02/21/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA10556 Units: ug/l

Time:		08:26			09:04			09:59	
Sample ID:	ICV	ICV1		CCV	CCV1		CCV	CCV2	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	2000	2080	104.0	2000	1990	99.5	2000	2000	100.0
Arsenic	anr								
Barium	anr								
Beryllium	anr								
Cadmium	2000	2100	105.0	2000	2030	101.5	2000	2050	102.5
Calcium	40000	42600	106.5	40000	41100	102.8	40000	41900	104.8
Chromium	2000	2100	105.0	2000	2040	102.0	2000	2030	101.5
Cobalt	anr								
Copper	anr								
Iron	anr								
Lead	anr								
Magnesium	anr								
Manganese	anr								
Molybdenum	anr								
Nickel	anr								
Potassium	anr								
Selenium	2000	2120	106.0	2000	1990	99.5	2000	2010	100.5
Silver	anr								
Sodium	40000	41400	103.5	40000	39900	99.8	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: FA1804
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA022113M1.ICP Date Analyzed: 02/21/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA10556 Units: ug/l

Time:		10:53			11:47			12:15	
Sample ID:	CCV	CCV3		CCV	CCV4		CCV	CCV5	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	2000	2030	101.5	2000	2040	102.0	2000	1990	99.5
Arsenic	anr								
Barium	anr								
Beryllium	anr								
Cadmium	2000	2070	103.5	2000	2080	104.0	2000	2020	101.0
Calcium	40000	41800	104.5	40000	41800	104.5	40000	40500	101.3
Chromium	2000	2090	104.5	2000	2120	106.0	2000	2010	100.5
Cobalt	anr								
Copper	anr								
Iron	anr								
Lead	anr								
Magnesium	anr								
Manganese	anr								
Molybdenum	anr								
Nickel	anr								
Potassium	anr								
Selenium	2000	2050	102.5	2000	2060	103.0	2000	2000	100.0
Silver	anr								
Sodium	40000	40600	101.5	40000	40700	101.8	40000	40000	100.0
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: FA1804
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA022113M1.ICP Date Analyzed: 02/21/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA10556 Units: ug/l

Time:		13:11			14:06			15:03	
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	2030	101.5	2000	2030	101.5
Arsenic	anr								
Barium	anr								
Beryllium	anr								
Cadmium	2000	2050	102.5	2000	2070	103.5	2000	2070	103.5
Calcium	40000	41400	103.5	40000	41200	103.0	40000	41300	103.3
Chromium	2000	2090	104.5	2000	2110	105.5	2000	2150	107.5
Cobalt	anr								
Copper	anr								
Iron	anr								
Lead	anr								
Magnesium	anr								
Manganese	anr								
Molybdenum	anr								
Nickel	anr								
Potassium	anr								
Selenium	2000	2020	101.0	2000	2050	102.5	2000	2050	102.5
Silver	anr								
Sodium	40000	40100	100.3	40000	40300	100.8	40000	40200	100.5
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: FA1804
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA022113M1.ICP Date Analyzed: 02/21/13 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA10556 Units: ug/l

Time:		16:02	
Sample ID:	CCV	CCV9	
Metal	True	Results	% Rec
Aluminum	anr		
Antimony	2000	2060	103.0
Arsenic	anr		
Barium	anr		
Beryllium	anr		
Cadmium	2000	2100	105.0
Calcium	40000	40800	102.0
Chromium	2000	2200	110.0
Cobalt	anr		
Copper	anr		
Iron	anr		
Lead	anr		
Magnesium	anr		
Manganese	anr		
Molybdenum	anr		
Nickel	anr		
Potassium	anr		
Selenium	2000	2090	104.5
Silver	anr		
Sodium	40000	40600	101.5
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: FA1804
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA022113M1.ICP Date Analyzed: 02/21/13 Methods: SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA10556 Units: ug/l

Time:		08:22	
Sample ID:	HSTD	HSTD1	
Metal	True	Results	% Rec
Aluminum	anr		
Antimony	4000	4060	101.5
Arsenic	anr		
Barium	anr		
Beryllium	anr		
Cadmium	4000	4020	100.5
Calcium	80000	80500	100.6
Chromium	4000	4040	101.0
Cobalt	anr		
Copper	anr		
Iron	anr		
Lead	anr		
Magnesium	anr		
Manganese	anr		
Molybdenum	anr		
Nickel	anr		
Potassium	anr		
Selenium	4000	4060	101.5
Silver	anr		
Sodium	80000	80600	100.8
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: FA1804
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA022113M1.ICP Date Analyzed: 02/21/13 Methods: SW846 6010C
QC Limits: CRI 70-130% CRIA 70-130% Run ID: MA10556 Units: ug/l

Time:			08:36		15:30	
Sample ID:	CRI	CRIA	CRIA1		CRIA2	
Metal	True	True	Results	% Rec	Results	% Rec
Aluminum	400	200	anr			
Antimony	10	5.0	5.6	112.0	5.5	110.0
Arsenic	20	10	anr			
Barium	400	200	anr			
Beryllium	10	5.0	anr			
Cadmium	10	5.0	5.3	106.0	5.5	110.0
Calcium	2000	1000	1030	103.0	1040	104.0
Chromium	20	10	10.2	102.0	11.4	114.0
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	8.8	88.0	6.7	67.0*(a)
Silver	20	10	anr			
Sodium	20000	10000	9940	99.4	9950	99.5
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
(a) Possible instrument baseline drift.

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

Login Number: FA1804
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: SA022113M1.ICP Date Analyzed: 02/21/13 Methods: SW846 6010C
QC Limits: 80 to 120 % Recovery Run ID: MA10556 Units: ug/l

Time:			08:45		08:54		15:34		15:39	
Sample ID:	ICSA	ICSAB	ICSA1		ICSAB1		ICSA2		ICSAB2	
Metal	True	True	Results	% Rec	Results	% Rec	Results	% Rec	Results	% Rec
Aluminum	500000	500000	518000	103.6	527000	105.4	515000	103.0	507000	101.4
Antimony		1000	0.0		1010	101.0	-2.7		1030	103.0
Arsenic		1000	-0.70		1010	101.0	2.1		1020	102.0
Barium		500	-0.60		487	97.4	-0.60		506	101.2
Beryllium		500	-0.20		480	96.0	0.0		501	100.2
Cadmium		1000	0.0		854	85.4	-2.1		922	92.2
Calcium	500000	500000	496000	99.2	499000	99.8	501000	100.2	494000	98.8
Chromium		500	-0.70		435	87.0	-0.60		487	97.4
Cobalt		500	-0.40		433	86.6	-0.40		451	90.2
Copper		500	0.40		517	103.4	-0.90		557	111.4
Iron	200000	200000	189000	94.5	183000	91.5	196000	98.0	184000	92.0
Lead		1000	0.0		878	87.8	0.10		930	93.0
Magnesium	500000	500000	520000	104.0	529000	105.8	522000	104.4	515000	103.0
Manganese		500	0.40		451	90.2	-0.20		495	99.0
Molybdenum		1000	0.40		979	97.9	0.60		950	95.0
Nickel		1000	-0.20		845	84.5	-0.30		907	90.7
Potassium			-4.2		-9.2		11.0		10.7	
Selenium		1000	2.0		968	96.8	-2.7		999	99.9
Silver		1000	-0.40		971	97.1	-0.50		1030	103.0
Sodium			55.3		82.7		43.5		75.7	
Strontium		1000	4.1		1080	108.0	4.2		1070	107.0
Thallium		1000	0.0		950	95.0	1.1		951	95.1
Tin		1000	0.50		920	92.0	1.6		915	91.5
Titanium		1000	-1.2		1030	103.0	-1.2		1060	106.0
Vanadium		500	0.0		474	94.8	0.90		517	103.4
Zinc		1000	-0.30		864	86.4	-0.70		916	91.6

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

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA1804
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: H40223W1.CSV Date Analyzed: 02/23/13 Methods: SW846 7470A
Analyst: JL Run ID: MA10560
Parameters: Hg

Time	Sample Description	Dilution Factor	PS Recov	Comments
13:38	MA10560-STD1	1		STD1
13:39	MA10560-STD2	1		STD2
13:41	MA10560-STD3	1		STD3
13:42	MA10560-STD4	1		STD4
13:44	MA10560-STD5	1		STD5
13:45	MA10560-STD6	1		STD6
13:47	MA10560-HSTD1	1		
13:49	MA10560-ICV1	1		
13:51	MA10560-ICB1	1		
13:53	MA10560-CRI1	1		
13:54	MA10560-CCV1	1		
13:56	MA10560-CCB1	1		
13:57	MP24664-MB1	1		
13:59	MP24664-B1	1		
14:00	FA1765-2L	1		(sample used for QC only; not part of login FA1804)
14:02	MP24664-D1	1		
14:03	MP24664-SD1	5		
14:04	MP24664-S1	1		
14:06	MP24664-S2	1		
14:07	ZZZZZZ	1		
14:09	FA1804-1L	1		
14:10	FA1804-2L	1		
14:12	MA10560-CCV2	1		
14:13	MA10560-CCB2	1		
14:15	ZZZZZZ	1		
14:16	ZZZZZZ	1		
14:17	ZZZZZZ	1		
14:19	ZZZZZZ	1		
14:20	MP24664-MB2	1		
14:21	MP24664-B2	1		
14:23	MP24664-MB3	1		
14:24	MP24664-B3	1		
---------->	Last reportable sample/prep for job FA1804			
14:26	MP24665-MB1	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA1804
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: H40223W1.CSV Date Analyzed: 02/23/13 Methods: SW846 7470A
Analyst: JL Run ID: MA10560
Parameters: Hg

Time	Sample Description	Dilution Factor	PS Recov	Comments
14:27	MP24665-B1	1		
14:29	MA10560-CCV3	1		
14:30	MA10560-CCB3	1		
14:32	FA1679-1R	1		(sample used for QC only; not part of login FA1804)
14:34	MP24665-D1	1		
14:35	MP24665-SD1	5		
14:36	MP24665-S1	1		
14:37	MP24665-S2	1		
14:39	ZZZZZZ	1		
14:41	ZZZZZZ	1		
14:42	ZZZZZZ	1		
14:44	ZZZZZZ	1		
14:45	ZZZZZZ	1		
14:46	MA10560-CCV4	1		
14:47	MA10560-CCB4	1		
14:49	ZZZZZZ	1		
14:51	ZZZZZZ	1		
14:52	MP24665-MB2	1		
14:53	MP24665-B2	1		
14:54	MP24665-MB3	1		
14:56	MP24665-B3	1		
15:00	MA10560-CRI2	1		
15:02	MA10560-CCV5	1		
15:03	MA10560-CCB5	1		

----------> Last reportable CCB for job FA1804
Refer to raw data for calibration curve and standards.

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: FA1804
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: H40223W1.CSV Date Analyzed: 02/23/13 Methods: SW846 7470A
QC Limits: result < RL Run ID: MA10560 Units: ug/l

Time:			13:51		13:56		14:13		14:30	
Sample ID:			ICB1		CCB1		CCB2		CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Mercury	0.50	.03	-0.022	<0.50	-0.0056	<0.50	-0.0061	<0.50	-0.0074	<0.50

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

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: FA1804
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: H40223W1.CSV Date Analyzed: 02/23/13 Methods: SW846 7470A
QC Limits: result < RL Run ID: MA10560 Units: ug/l

Time:			14:47		15:03	
Sample ID:			CCB4		CCB5	
Metal	RL	IDL	raw	final	raw	final
Mercury	0.50	.03	-0.015	<0.50	-0.028	<0.50

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

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA1804
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: H40223W1.CSV Date Analyzed: 02/23/13 Methods: SW846 7470A
QC Limits: 90 to 110 % Recovery Run ID: MA10560 Units: ug/l

Time:		13:49			13:54			14:12	
Sample ID:	ICV	ICV1		CCV	CCV1		CCV	CCV2	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Mercury	3	2.9	96.7	3.0	3.0	100.0	3.0	3.0	100.0

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

6.4.2
6

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA1804
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: H40223W1.CSV Date Analyzed: 02/23/13 Methods: SW846 7470A
QC Limits: 90 to 110 % Recovery Run ID: MA10560 Units: ug/l

Time:		14:29			14:46			15:02	
Sample ID:	CCV	CCV3		CCV	CCV4		CCV	CCV5	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Mercury	3.0	3.0	100.0	3.0	3.0	100.0	3	2.9	96.7

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

6.4.2
6

HIGH STANDARD CHECK SUMMARY

Login Number: FA1804
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: H40223W1.CSV Date Analyzed: 02/23/13 Methods: SW846 7470A
QC Limits: 95 to 105 % Recovery Run ID: MA10560 Units: ug/l

Time:		13:47	
Sample ID:	HSTD	HSTD1	
Metal	True	Results	% Rec
Mercury	6	5.9	98.3

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

6.4.3
6

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: FA1804
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: H40223W1.CSV Date Analyzed: 02/23/13 Methods: SW846 7470A
QC Limits: 80 to 120 % Recovery Run ID: MA10560 Units: ug/l

Time:			13:53		15:00	
Sample ID:	CRI	CRIA	CRI1		CRI2	
Metal	True	True	Results	% Rec	Results	% Rec
Mercury	0.20		0.18	90.0	0.18	90.0

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

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: FA1804
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

QC Batch ID: MP24639
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 02/19/13

Metal	RL	IDL	MDL	MB raw	final
Aluminum	200	15	15	-17	<200
Antimony	6.0	1.3	1.3	0.80	<6.0
Arsenic	10	1.6	2.5	-0.30	<10
Barium	200	1	1		
Beryllium	4.0	.5	.5		
Cadmium	5.0	.5	.5	-0.20	<5.0
Calcium	1000	50	50	-4.8	<1000
Chromium	10	1.8	2	-0.40	<10
Cobalt	50	.5	.5		
Copper	25	1	1		
Iron	300	29	29	-10	<300
Lead	5.0	1.1	1.1		
Magnesium	5000	74	74	-23	<5000
Manganese	15	.7	.7		
Molybdenum	50	.6	1		
Nickel	40	.5	.5		
Potassium	10000	200	200	-28	<10000
Selenium	10	2	2	0.10	<10
Silver	10	.5	.5		
Sodium	10000	500	500	13.7	<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 MP24639: FA1804-1F, FA1804-2F, FA1804-3F, FA1804-4F, FA1804-5F

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: FA1804
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

QC Batch ID: MP24639
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date:			02/19/13					02/19/13	
Metal	FA1837-1 Original	DUP	RPD	QC Limits	FA1837-1 Original	MS	Spikelot MPFLICP1	% Rec	QC Limits
Aluminum	51.9	63.9	20.7 (a)	0-20	51.9	28000	27000	103.5	80-120
Antimony	0.0	0.0	NC	0-20	0.0	487	500	97.4	80-120
Arsenic	5.9	5.6	5.2	0-20	5.9	1900	2000	94.7	80-120
Barium	anr								
Beryllium	anr								
Cadmium	0.0	0.0	NC	0-20	0.0	47.8	50	95.6	80-120
Calcium	62000	60600	2.3	0-20	62000	84000	25000	88.0	80-120
Chromium	0.0	0.0	NC	0-20	0.0	203	200	101.5	80-120
Cobalt									
Copper	anr								
Iron	32.1	0.00	200.0(a)	0-20	32.1	26000	26000	99.9	80-120
Lead	anr								
Magnesium	18000	17700	1.7	0-20	18000	41900	25000	95.6	80-120
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium	18100	17800	1.7	0-20	18100	42500	25000	97.6	80-120
Selenium	0.0	0.0	NC	0-20	0.0	1920	2000	96.0	80-120
Silver	anr								
Sodium	17700	17300	2.3	0-20	17700	42700	25000	100.0	80-120
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium									
Zinc	anr								

Associated samples MP24639: FA1804-1F, FA1804-2F, FA1804-3F, FA1804-4F, FA1804-5F

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: FA1804
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

QC Batch ID: MP24639
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 02/19/13

Metal	FA1837-1 Original	MSD	Spikelot MPFLICP1	% Rec	MSD RPD	QC Limit
Aluminum	51.9	29300	27000	108.3	4.5	20
Antimony	0.0	507	500	101.4	4.0	20
Arsenic	5.9	1980	2000	98.7	4.1	20
Barium	anr					
Beryllium	anr					
Cadmium	0.0	49.8	50	99.6	4.1	20
Calcium	62000	85000	25000	92.0	1.2	20
Chromium	0.0	215	200	107.5	5.7	20
Cobalt						
Copper	anr					
Iron	32.1	26900	26000	103.3	3.4	20
Lead	anr					
Magnesium	18000	42700	25000	98.8	1.9	20
Manganese	anr					
Molybdenum						
Nickel	anr					
Potassium	18100	43800	25000	102.8	3.0	20
Selenium	0.0	2000	2000	100.0	4.1	20
Silver	anr					
Sodium	17700	43700	25000	104.0	2.3	20
Strontium						
Thallium	anr					
Tin						
Titanium						
Vanadium						
Zinc	anr					

Associated samples MP24639: FA1804-1F, FA1804-2F, FA1804-3F, FA1804-4F, FA1804-5F

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: FA1804
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

QC Batch ID: MP24639
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 02/19/13

Metal	BSP Result	Spikelot MPFLICP1	% Rec	QC Limits
Aluminum	29100	27000	107.8	80-120
Antimony	502	500	100.4	80-120
Arsenic	1940	2000	97.0	80-120
Barium	anr			
Beryllium	anr			
Cadmium	51.1	50	102.2	80-120
Calcium	27400	25000	109.6	80-120
Chromium	212	200	106.0	80-120
Cobalt				
Copper	anr			
Iron	27000	26000	103.8	80-120
Lead	anr			
Magnesium	26100	25000	104.4	80-120
Manganese	anr			
Molybdenum				
Nickel	anr			
Potassium	26200	25000	104.8	80-120
Selenium	1970	2000	98.5	80-120
Silver	anr			
Sodium	27200	25000	108.8	80-120
Strontium				
Thallium	anr			
Tin				
Titanium				
Vanadium				
Zinc	anr			

Associated samples MP24639: FA1804-1F, FA1804-2F, FA1804-3F, FA1804-4F, FA1804-5F

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

SERIAL DILUTION RESULTS SUMMARY

Login Number: FA1804
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

QC Batch ID: MP24639
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 02/19/13

Metal	FA1837-1 Original	SDL 1:5	%DIF	QC Limits
Aluminum	51.9	0.00	100.0(a)	0-10
Antimony	0.00	0.00	NC	0-10
Arsenic	5.90	0.00	100.0(a)	0-10
Barium	anr			
Beryllium	anr			
Cadmium	0.00	0.00	NC	0-10
Calcium	62000	60500	2.4	0-10
Chromium	0.00	0.00	NC	0-10
Cobalt				
Copper	anr			
Iron	32.1	0.00	100.0(a)	0-10
Lead	anr			
Magnesium	18000	17800	1.4	0-10
Manganese	anr			
Molybdenum				
Nickel	anr			
Potassium	18100	17600	2.7	0-10
Selenium	0.00	0.00	NC	0-10
Silver	anr			
Sodium	17700	17100	3.1	0-10
Strontium				
Thallium	anr			
Tin				
Titanium				
Vanadium				
Zinc	anr			

Associated samples MP24639: FA1804-1F, FA1804-2F, FA1804-3F, FA1804-4F, FA1804-5F

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: FA1804
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

QC Batch ID: MP24639
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 02/19/13

Metal	Sample ml	Final ml	FA1837-1 Raw	Corr.**	PS ug/l	Spike ml	Spike ug/ml	Spike ug/l	% Rec	QC Limits
Aluminum	9.8	10	51.9	50.862	2594	0.2	125	2500	101.7	80-120
Antimony	9.8	10	0	0	103.2	0.2	5	100	103.2	80-120
Arsenic	9.8	10	5.9	5.782	106	0.2	5	100	100.2	80-120
Barium										
Beryllium										
Cadmium	9.8	10	0	0	51.4	0.2	2.5	50	102.8	80-120
Calcium	9.8	10	61970	60730.6	66300	0.2	250	5000	111.4	80-120
Chromium	9.8	10	0	0	53.3	0.2	2.5	50	106.6	80-120
Cobalt										
Copper										
Iron	9.8	10	32.1	31.458	3056	0.2	150	3000	100.8	80-120
Lead										
Magnesium	9.8	10	18040	17679.2	22640	0.2	250	5000	99.2	80-120
Manganese										
Molybdenum										
Nickel										
Potassium	9.8	10	18110	17747.8	28030	0.2	500	10000	102.8	80-120
Selenium	9.8	10	0	0	99.8	0.2	5	100	99.8	80-120
Silver										
Sodium	9.8	10	17680	17326.4	27670	0.2	500	10000	103.4	80-120
Strontium										
Thallium										
Tin										
Titanium										
Vanadium										
Zinc										

Associated samples MP24639: FA1804-1F, FA1804-2F, FA1804-3F, FA1804-4F, FA1804-5F

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

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: FA1804
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

QC Batch ID: MP24642
Matrix Type: LEACHATE

Methods: SW846 6010C
Units: mg/l

Prep Date:					02/20/13		02/20/13
Metal	RL	IDL	MDL	MB raw	final	MB raw	final
Aluminum	0.20	.015	.015				
Antimony	0.0060	.0013	.0013				
Arsenic	0.010	.0016	.0025	-0.0012	<0.010	-0.0070	<0.10
Barium	0.20	.001	.005	0.0	<0.20	-0.0010	<2.0
Beryllium	0.0040	.0005	.0005				
Cadmium	0.0050	.0005	.0005	-0.00010	<0.0050	-0.0020	<0.050
Calcium	1.0	.05	.05				
Chromium	0.010	.0018	.002	0.0	<0.010	0.0020	<0.10
Cobalt	0.050	.0005	.0005				
Copper	0.025	.001	.001				
Iron	0.30	.029	.029				
Lead	0.0050	.0011	.0011	-0.00070	<0.0050	0.011	<0.050
Magnesium	5.0	.074	.074				
Manganese	0.015	.0007	.0007				
Molybdenum	0.050	.0006	.001				
Nickel	0.040	.0005	.0005				
Potassium	10	.2	.2				
Selenium	0.010	.002	.002	-0.0010	<0.010	-0.014	<0.10
Silver	0.010	.0005	.0005	0.0	<0.010	-0.0010	<0.10
Sodium	10	.5	.5				
Strontium	0.010	.0005	.0005				
Thallium	0.010	.0013	.0013				
Tin	0.050	.0007	.0018				
Titanium	0.010	.0009	.001				
Vanadium	0.050	.0005	.001				
Zinc	0.020	.003	.01				

Associated samples MP24642: FA1804-1L, FA1804-2L

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: FA1804
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

QC Batch ID: MP24642
Matrix Type: LEACHATE

Methods: SW846 6010C
Units: mg/l

Prep Date:	02/20/13							02/20/13	
Metal	FA1765-2L Original	DUP	RPD	QC Limits	FA1765-2L Original	MS	Spikelot MPFLICP1	% Rec	QC Limits
Aluminum									
Antimony									
Arsenic	0.036	0.023	44.1 (a)	0-20	0.036	21.6	20.0	107.8	80-120
Barium	0.079	0.081	2.5	0-20	0.079	22.3	20.0	111.1	80-120
Beryllium									
Cadmium	0.0	0.0	NC	0-20	0.0	0.53	0.50	106.0	80-120
Calcium									
Chromium	0.0	0.0	NC	0-20	0.0	2.2	2.0	110.0	80-120
Cobalt									
Copper									
Iron									
Lead	0.0	0.0	NC	0-20	0.0	5.1	5.0	102.0	80-120
Magnesium									
Manganese									
Molybdenum									
Nickel									
Potassium									
Selenium	0.021	0.031	38.5 (a)	0-20	0.021	22.0	20.0	109.9	80-120
Silver	0.0	0.0	NC	0-20	0.0	0.52	0.50	104.0	80-120
Sodium									
Strontium									
Thallium									
Tin									
Titanium									
Vanadium									
Zinc									

Associated samples MP24642: FA1804-1L, FA1804-2L

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: FA1804
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

QC Batch ID: MP24642
Matrix Type: LEACHATE

Methods: SW846 6010C
Units: mg/l

Prep Date: 02/20/13

Metal	FA1765-2L Original	MSD	Spikelot MPFLICP1	% Rec	MSD RPD	QC Limit
Aluminum						
Antimony						
Arsenic	0.036	21.3	20.0	106.3	1.4	20
Barium	0.079	21.9	20.0	109.1	1.8	20
Beryllium						
Cadmium	0.0	0.52	0.50	104.0	1.9	20
Calcium						
Chromium	0.0	2.2	2.0	110.0	0.0	20
Cobalt						
Copper						
Iron						
Lead	0.0	5.1	5.0	102.0	0.0	20
Magnesium						
Manganese						
Molybdenum						
Nickel						
Potassium						
Selenium	0.021	21.6	20.0	107.9	1.8	20
Silver	0.0	0.51	0.50	102.0	1.9	20
Sodium						
Strontium						
Thallium						
Tin						
Titanium						
Vanadium						
Zinc						

Associated samples MP24642: FA1804-1L, FA1804-2L

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: FA1804
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

QC Batch ID: MP24642
Matrix Type: LEACHATE

Methods: SW846 6010C
Units: mg/l

Prep Date:			02/20/13				02/20/13	
Metal	BSP Result	Spikelot MPFLICP1	% Rec	QC Limits	BSP Result	Spikelot MPFLICP1	% Rec	QC Limits
Aluminum								
Antimony								
Arsenic	2.1	2.0	105.0	80-120	20.7	20.0	103.5	80-120
Barium	2.2	2.0	110.0	80-120	21.3	20.0	106.5	80-120
Beryllium								
Cadmium	0.052	0.050	104.0	80-120	0.52	0.50	104.0	80-120
Calcium								
Chromium	0.22	0.20	110.0	80-120	2.3	2.0	115.0	80-120
Cobalt								
Copper								
Iron								
Lead	0.50	0.50	100.0	80-120	5.0	5.0	100.0	80-120
Magnesium								
Manganese								
Molybdenum								
Nickel								
Potassium								
Selenium	2.1	2.0	105.0	80-120	20.9	20.0	104.5	80-120
Silver	0.050	0.050	100.0	80-120	0.50	0.50	100.0	80-120
Sodium								
Strontium								
Thallium								
Tin								
Titanium								
Vanadium								
Zinc								

Associated samples MP24642: FA1804-1L, FA1804-2L

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

SERIAL DILUTION RESULTS SUMMARY

Login Number: FA1804
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

QC Batch ID: MP24642
Matrix Type: LEACHATE

Methods: SW846 6010C
Units: ug/l

Prep Date: 02/20/13

Metal	FA1765-2L Original	SDL 1:5	%DIF	QC Limits
Aluminum				
Antimony				
Arsenic	3.60	0.00	100.0(a)	0-10
Barium	7.90	9.60	21.5 (a)	0-10
Beryllium				
Cadmium	0.00	0.00	NC	0-10
Calcium				
Chromium	0.00	0.00	NC	0-10
Cobalt				
Copper				
Iron				
Lead	0.00	0.00	NC	0-10
Magnesium				
Manganese				
Molybdenum				
Nickel				
Potassium				
Selenium	2.10	0.00	100.0(a)	0-10
Silver	0.00	0.00	NC	0-10
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc				

Associated samples MP24642: FA1804-1L, FA1804-2L

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).

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: FA1804
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

QC Batch ID: MP24664 Methods: SW846 7470A
Matrix Type: LEACHATE Units: mg/l

Prep Date:				02/23/13		02/23/13		02/23/13	
Metal	RL	IDL	MDL	MB raw	final	MB raw	final	MB raw	final
Mercury	0.00050	.00003	.00005	0.0000074	<0.00050	-0.00051	<0.0050	-0.00024	<0.0050

Associated samples MP24664: FA1804-1L, FA1804-2L

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: FA1804
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

QC Batch ID: MP24664
Matrix Type: LEACHATE

Methods: SW846 7470A
Units: mg/l

Prep Date: 02/23/13 02/23/13

Metal	FA1765-2L Original	DUP	RPD	QC Limits	FA1765-2L Original	MS	Spikelot HGFLWS1	% Rec	QC Limits
Mercury	0.0	0.0	NC	0-20	0.0	0.030	0.030	100.0	80-120

Associated samples MP24664: FA1804-1L, FA1804-2L

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: FA1804
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

QC Batch ID: MP24664
Matrix Type: LEACHATE

Methods: SW846 7470A
Units: mg/l

Prep Date: 02/23/13

Metal	FA1765-2L Original	MSD	Spikelot HGFLWS1	% Rec	MSD RPD	QC Limit
Mercury	0.0	0.030	0.030	100.0	0.0	20

Associated samples MP24664: FA1804-1L, FA1804-2L

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: FA1804
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

QC Batch ID: MP24664
Matrix Type: LEACHATE

Methods: SW846 7470A
Units: mg/l

Prep Date:	02/23/13				02/23/13			
Metal	BSP Result	Spikelot HGFLWS1	% Rec	QC Limits	BSP Result	Spikelot HGFLWS1	% Rec	QC Limits
Mercury	0.0030	0.0030	100.0	80-120	0.030	0.030	100.0	80-120

Associated samples MP24664: FA1804-1L, FA1804-2L

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

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: FA1804
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

QC Batch ID: MP24664
Matrix Type: LEACHATE

Methods: SW846 7470A
Units: mg/l

Prep Date: 02/23/13

Metal	BSP Result	Spikelot HGFLWS1	% Rec	QC Limits
Mercury	0.030	0.030	100.0	80-120

Associated samples MP24664: FA1804-1L, FA1804-2L

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

SERIAL DILUTION RESULTS SUMMARY

Login Number: FA1804
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

QC Batch ID: MP24664
Matrix Type: LEACHATE

Methods: SW846 7470A
Units: ug/l

Prep Date: 02/23/13

Metal	FA1765-2L Original	SDL 1:5	%DIF	QC Limits
Mercury	0.00	0.00	NC	0-10

Associated samples MP24664: FA1804-1L, FA1804-2L

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(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: FA1804
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	GN54409	5.0	0.0	mg/l	250	249	99.8	90-113%
Alkalinity, Total as CaCO3	GN54410	25	0.0	mg/l	250	263	105.0	90-113%
Chloride	GP21000/GN54208	2.0	0.0	mg/l	50	51.1	102.2	90-110%
Fluoride	GP21000/GN54208	0.20	0.0	mg/l	2.5	2.58	103.2	90-110%
Nitrogen, Nitrate	GP21000/GN54208	0.10	0.0	mg/l	2.5	2.47	98.8	90-110%
Phosphate, Ortho	GP21008/GN54219	0.10	0.0	mg/l	0.300	0.17	109.1	83-116%
Phosphorus, Total	GP21053/GN54332	0.10	0.0	mg/l	.300	0.28	94.0	81-118%
Solids, Total Dissolved	GN54239	100	15.0	mg/l				
Solids, Total Dissolved	GN54272	100	0.0	mg/l				
Specific Conductivity	GN54183	1.0	0.0	umhos/cm				
Sulfate	GP21000/GN54208	2.0	0.0	mg/l	50	51.8	103.6	90-110%

Associated Samples:
Batch GN54183: FA1804-1, FA1804-2, FA1804-3, FA1804-4, FA1804-5
Batch GN54239: FA1804-1, FA1804-2
Batch GN54272: FA1804-3, FA1804-4, FA1804-5
Batch GN54409: FA1804-1, FA1804-3, FA1804-4, FA1804-5
Batch GN54410: FA1804-2
Batch GP21000: FA1804-1, FA1804-2, FA1804-3, FA1804-4, FA1804-5
Batch GP21008: FA1804-1F, FA1804-2F, FA1804-3F, FA1804-4F, FA1804-5F
Batch GP21053: FA1804-1, FA1804-2, FA1804-3, FA1804-4, FA1804-5
(*) Outside of QC limits

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: FA1804
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	GN54409	FA1804-1	mg/l	156	153	1.8	0-20%
Alkalinity, Total as CaCO3	GN54410	FA1804-2	mg/l	550	555	0.9	0-20%
Phosphorus, Total	GP21053/GN54332	FA1804-1	mg/l	0.85	0.85	0.5	0-22%
Solids, Total Dissolved	GN54239	FA1765-1	mg/l	25300	28100(a)	10.5*(a)	0-5%
Solids, Total Dissolved	GN54272	FA1804-4	mg/l	821	806	1.8	0-5%
Specific Conductivity	GN54183	FA1804-4	umhos/cm	1010	1010	0.4	0-10%
pH	GN54184	FA1807-2	su	2.65	2.65	0.0	0-10%

Associated Samples:
Batch GN54183: FA1804-1, FA1804-2, FA1804-3, FA1804-4, FA1804-5
Batch GN54184: FA1804-1, FA1804-2, FA1804-3, FA1804-4, FA1804-5
Batch GN54239: FA1804-1, FA1804-2
Batch GN54272: FA1804-3, FA1804-4, FA1804-5
Batch GN54409: FA1804-1, FA1804-3, FA1804-4, FA1804-5
Batch GN54410: FA1804-2
Batch GP21008: FA1804-1F, FA1804-2F, FA1804-3F, FA1804-4F, FA1804-5F
Batch GP21053: FA1804-1, FA1804-2, FA1804-3, FA1804-4, FA1804-5
(*) Outside of QC limits
(a) Confirmed by Re-analysis.

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: FA1804
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
Alkalinity, Total as CaCO3	GN54409	FA1804-1	mg/l	156	250	395	95.7	90-113%
Alkalinity, Total as CaCO3	GN54410	FA1804-2	mg/l	550	250	800	100.0	90-113%
Chloride	GP21000/GN54208	FA1804-4	mg/l	26.4	50	78.4	104.0	90-110%
Fluoride	GP21000/GN54217	FA1804-4	mg/l	16.3	2.5	17.8	60.0(a)	90-110%
Nitrogen, Nitrate	GP21000/GN54208	FA1804-4	mg/l	3.2	2.5	5.9	108.0	90-110%
Phosphorus, Total	GP21053/GN54332	FA1804-1	mg/l	0.85	.300	1.1	94.6	81-118%
Sulfate	GP21000/GN54217	FA1804-4	mg/l	270	50	311	82.0(a)	90-110%

Associated Samples:
Batch GN54409: FA1804-1, FA1804-3, FA1804-4, FA1804-5
Batch GN54410: FA1804-2
Batch GP21000: FA1804-1, FA1804-2, FA1804-3, FA1804-4, FA1804-5
Batch GP21008: FA1804-1F, FA1804-2F, FA1804-3F, FA1804-4F, FA1804-5F
Batch GP21053: FA1804-1, FA1804-2, FA1804-3, FA1804-4, FA1804-5
(*) 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.

MATRIX SPIKE DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: FA1804
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	GP21000/GN54208	FA1804-4	mg/l	26.4	50	76.7	2.2	
Fluoride	GP21000/GN54217	FA1804-4	mg/l	16.3	2.5	17.8	1.1(a)	
Nitrogen, Nitrate	GP21000/GN54208	FA1804-4	mg/l	3.2	2.5	5.8	1.7	
Phosphorus, Total	GP21053/GN54332	FA1804-1	mg/l	0.85	.300	1.16	2.8	22%
Sulfate	GP21000/GN54217	FA1804-4	mg/l	270	50	308	3.5(a)	

Associated Samples:
Batch GP21000: FA1804-1, FA1804-2, FA1804-3, FA1804-4, FA1804-5
Batch GP21053: FA1804-1, FA1804-2, FA1804-3, FA1804-4, FA1804-5
(*) 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.

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA1804
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: 313160201.TXT Date Analyzed: 02/16/13 Methods: EPA 300/SW846 9056A
Analyst: AA Run ID: GN54208
Parameters: Chloride,Fluoride,Nitrogen, Nitrate,Sulfate

Time	Sample Description	Dilution Factor	PS Recov	Comments
11:07	GN54208-CCV1	1		
11:22	GN54208-CCB1	1		
11:38	GP21000-MB1	1		
11:54	GP21000-B1	1		
12:42	FA1804-3	25		
12:58	FA1804-1	25		
13:14	FA1804-2	25		
13:29	FA1804-4	2		
13:45	FA1804-5	5		
14:01	ZZZZZZ	50		
14:17	GN54208-CCV2	1		
14:33	GN54208-CCB2	1		
15:37	GP21000-S1	2		
15:52	GP21000-S2	2		
16:08	ZZZZZZ	1		
16:24	GN54208-CCV3	1		
16:40	GN54208-CCB3	1		

Refer to raw data for calibration curve and standards.

Instrument QC Summary
Inorganics Analyses

Login Number: FA1804
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: 313160201.TXT Date Analyzed: 02/16/13 Methods: EPA 300/SW846 9056A
Run ID: GN54208 Units: mg/l

Sample Number	Parameter	Result	RL	IDL/MDL	True Value	% Recov.	QC Limits
GN54208-CCV1	Fluoride	2.4	0.20	0.060	2.5	96.0	90-110
GN54208-CCV1	Chloride	51.1	2.0	0.80	50	102.2	90-110
GN54208-CCV1	Nitrogen, Nitrate	2.5	0.10	0.050	2.5	100.0	90-110
GN54208-CCV1	Sulfate	50.8	2.0	0.60	50	101.6	90-110
GN54208-CCB1	Fluoride	0.060 U	0.20	0.060			
GN54208-CCB1	Chloride	0.80 U	2.0	0.80			
GN54208-CCB1	Nitrogen, Nitrate	0.050 U	0.10	0.050			
GN54208-CCB1	Sulfate	0.60 U	2.0	0.60			
GN54208-CCV2	Fluoride	2.7	0.20	0.060	2.5	108.0	90-110
GN54208-CCV2	Chloride	50.8	2.0	0.80	50	101.6	90-110
GN54208-CCV2	Nitrogen, Nitrate	2.5	0.10	0.050	2.5	100.0	90-110
GN54208-CCV2	Sulfate	49.2	2.0	0.60	50	98.4	90-110
GN54208-CCB2	Fluoride	0.060 U	0.20	0.060			
GN54208-CCB2	Chloride	0.80 U	2.0	0.80			
GN54208-CCB2	Nitrogen, Nitrate	0.050 U	0.10	0.050			
GN54208-CCB2	Sulfate	0.60 U	2.0	0.60			
GN54208-CCV3	Chloride	51.0	2.0	0.80	50	102.0	90-110
GN54208-CCV3	Nitrogen, Nitrate	2.5	0.10	0.050	2.5	100.0	90-110
GN54208-CCV3	Sulfate	49.5	2.0	0.60	50	99.0	90-110
GN54208-CCB3	Fluoride	0.060 U	0.20	0.060			
GN54208-CCB3	Chloride	0.80 U	2.0	0.80			
GN54208-CCB3	Nitrogen, Nitrate	0.050 U	0.10	0.050			
GN54208-CCB3	Sulfate	0.60 U	2.0	0.60			

(!) Outside of QC limits

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA1804
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: 313180201.TXT Date Analyzed: 02/18/13 Methods: EPA 300/SW846 9056A
Analyst: AA Run ID: GN54217
Parameters: Fluoride,Nitrogen, Nitrate,Sulfate

Time	Sample Description	Dilution Factor	PS Recov	Comments
13:19	GN54217-CCV1	1		
13:35	GN54217-CCB1	1		
13:51	GP21005-MB1	1		
14:07	GP21005-B1	1		
16:09	FA1804-1	50		
16:25	FA1804-3	50		
16:41	FA1804-2	50		
16:57	FA1804-4	5		
17:12	GN54217-CCV2	1		
17:28	GN54217-CCB2	1		
17:44	FA1804-5	10		
18:00	ZZZZZZ	200		
18:16	ZZZZZZ	1		
18:32	GP21000-S1	5		
18:48	GP21000-S2	5		
19:04	ZZZZZZ	50		
19:20	ZZZZZZ	50		
19:36	ZZZZZZ	10		
19:51	FA1800-2	1		(sample used for QC only; not part of login FA1804)
20:07	ZZZZZZ	2		
20:23	GN54217-CCV3	1		
20:39	GN54217-CCB3	1		
20:55	GP21005-S1	1		
21:11	GP21005-S2	1		
21:27	GN54217-CCV4	1		
21:43	GN54217-CCB4	1		
21:59	ZZZZZZ	25		
22:14	ZZZZZZ	25		
22:30	FA1616-5	25		(sample used for QC only; not part of login FA1804)
22:46	GP20984-S3	25		
23:02	GP20984-S4	25		
23:18	GN54217-CCV5	1		
23:34	GN54217-CCB5	1		

Refer to raw data for calibration curve and standards.

Instrument QC Summary
Inorganics Analyses

Login Number: FA1804
Account: WSPECOD - WSP Environment & Energy
Project: Nu-West Conda Phosphate Operations, 3010 Conda Rd, Soda Springs, ID

File ID: 313180201.TXT Date Analyzed: 02/18/13 Methods: EPA 300/SW846 9056A
Run ID: GN54217 Units: mg/l

Sample Number	Parameter	Result	RL	IDL/MDL	True Value	% Recov.	QC Limits
GN54217-CCV1	Fluoride	2.5	0.20	0.060	2.5	100.0	90-110
GN54217-CCV1	Nitrogen, Nitrate	2.5	0.10	0.050	2.5	100.0	90-110
GN54217-CCV1	Sulfate	50.8	2.0	0.60	50	101.6	90-110
GN54217-CCB1	Fluoride	0.060 U	0.20	0.060			
GN54217-CCB1	Nitrogen, Nitrate	0.050 U	0.10	0.050			
GN54217-CCB1	Sulfate	0.60 U	2.0	0.60			
GN54217-CCV2	Fluoride	2.4	0.20	0.060	2.5	96.0	90-110
GN54217-CCV2	Nitrogen, Nitrate	2.5	0.10	0.050	2.5	100.0	90-110
GN54217-CCV2	Sulfate	49.3	2.0	0.60	50	98.6	90-110
GN54217-CCB2	Fluoride	0.060 U	0.20	0.060			
GN54217-CCB2	Nitrogen, Nitrate	0.050 U	0.10	0.050			
GN54217-CCB2	Sulfate	0.60 U	2.0	0.60			
GN54217-CCV3	Fluoride	2.3	0.20	0.060	2.5	92.0	90-110
GN54217-CCV3	Nitrogen, Nitrate	2.5	0.10	0.050	2.5	100.0	90-110
GN54217-CCV3	Sulfate	48.4	2.0	0.60	50	96.8	90-110
GN54217-CCB3	Fluoride	0.060 U	0.20	0.060			
GN54217-CCB3	Nitrogen, Nitrate	0.050 U	0.10	0.050			
GN54217-CCB3	Sulfate	0.60 U	2.0	0.60			
GN54217-CCV4	Fluoride	2.3	0.20	0.060	2.5	92.0	90-110
GN54217-CCV4	Nitrogen, Nitrate	2.5	0.10	0.050	2.5	100.0	90-110
GN54217-CCV4	Sulfate	48.8	2.0	0.60	50	97.6	90-110
GN54217-CCB4	Fluoride	0.060 U	0.20	0.060			
GN54217-CCB4	Nitrogen, Nitrate	0.050 U	0.10	0.050			
GN54217-CCB4	Sulfate	0.60 U	2.0	0.60			
GN54217-CCV5	Fluoride	2.5	0.20	0.060	2.5	100.0	90-110
GN54217-CCV5	Nitrogen, Nitrate	2.5	0.10	0.050	2.5	100.0	90-110
GN54217-CCV5	Sulfate	49.7	2.0	0.60	50	99.4	90-110
GN54217-CCB5	Fluoride	0.060 U	0.20	0.060			
GN54217-CCB5	Nitrogen, Nitrate	0.050 U	0.10	0.050			
GN54217-CCB5	Sulfate	0.60 U	2.0	0.60			

(!) Outside of QC limits